Special Wildlife Habitat Features and Wildlife Observations

We noted many special wildlife habitat features and some wildlife observations during our field work. All of these are noted in the polygon database for the Biological Survey Area and included in the polygon descriptions that are presented in Appendix A. We summarize some of these special habitat feature and wildlife observations below.

Several of the plant associations are uncommon or possibly unique, particularly those in wetlands. These include the following within the BSA:

- Sitka alder-dominated wetlands (ALVIS/ATFI, ALVIS/Mesic Forb and ALVIS/SETR) with a total area of 6.8 acres as primary association.
- Unique wetland assemblages (HEMA80-RUOC2, CASCP, and SETR-VECA2), with none of these comprising a single primary PA.
- One unique talus community on a stream (RILA/Talus) that was a secondary plant association.
- Dry open meadows (CAGE2-CARU, ERUMM-FEVI, FEVI-FEID, PHDI3/ARCA7-IOST, PHDI3/FEVI-HICY) near the summit of Mt. Spokane State Park appear to be globally rare, but locally common with more habitat on the summit; these covered 20.9 acres as primary association.
- A shrub-dominated plant association (RUPA/Mixed Graminoids) described from further east that consistently had high wildlife use; these only occurred as secondary plant associations.

Polygons containing any of the above plant associations were noted as special ecological features in the polygon database (Special PA).

Polygons with characteristics of old growth forests were identified in the field and again following our data analysis. Old growth forests were characterized as stands with more than 8 trees per acre over 20 inches in diameter, with tall trees, large snags, canopy cover greater than 50% and 2 or 3 canopy layers. We identified 14 polygons as old growth forest and noted these in the polygon database. There are many other polygons that may contain potential old-growth forest or at least some of the attributes that comprise old-growth forest conditions.

During our field surveys of the BSA in 2010, we did not see most of the wildlife species listed in Table 4. We did see moose on several occasions, both outside and inside the BSA. We also saw abundant sign of moose in many parts of the SEIS Analysis Area and with the BSA. Moose are frequently seen by staff of the Mt. Spokane Ski Area and Mt. Spokane State Park.

We saw and heard pikas in most of the talus fields near the top of the mountain during our 2010 biological surveys. We also encountered frequent fresh sign of pika presence in these areas. These sightings are of particular interest, in that WDFW surveys for pika at the Mt. Spokane in the last several years have been negative. We do have conclusive evidence that there is pika presence within the BSA at this time, but do not know the size of the population.

We saw sign of pileated woodpecker excavations in snags scattered throughout the area, but did not see the bird during our surveys. We saw sign of white-tailed deer on occasion during our surveys, but did not encounter them in the BSA. We saw winter wrens on occasion, but did

not encounter them in the BSA. We have seen goshawk previously at Mt. Spokane, but did not see the bird during our 2010 surveys of the BSA.

Wetlands and Streams

Wetlands and streams are a type of special habitat feature that are very important to many wildlife species. We noted the presence of wetlands and streams in each polygon during our fieldwork and mapped these features where we found them. We also used prior mapping of wetlands and streams done by the SE Group in 2009. Maps of the polygons within the BSA containing wetlands and streams, noted by either the SE Group or PBI, are presented in Figures 28 and 29. The polygon database for the Biological Survey Area contains a field for wetlands and another field for streams. This field notes the presence of wetlands and/or streams in each polygon. This information is also included in the polygon descriptions that are presented in Appendix A.

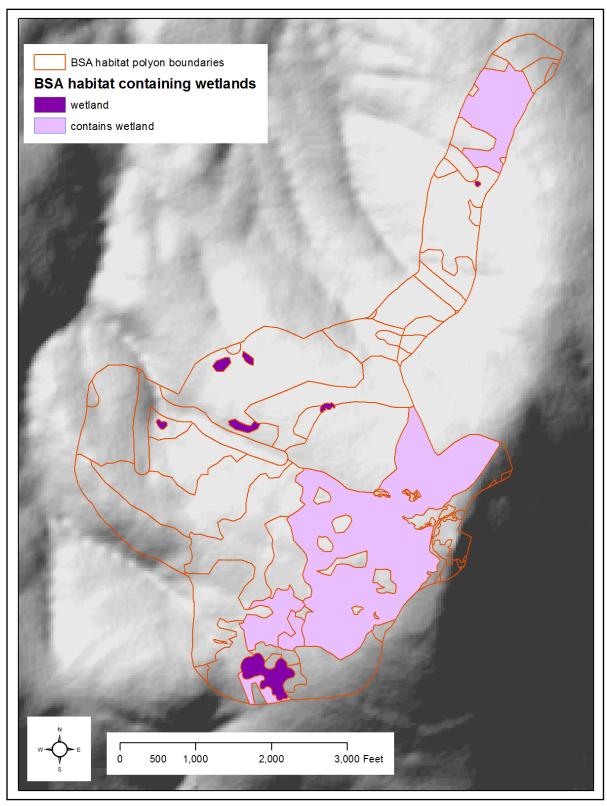


Figure 28. Polygons containing wetlands within the BSA.

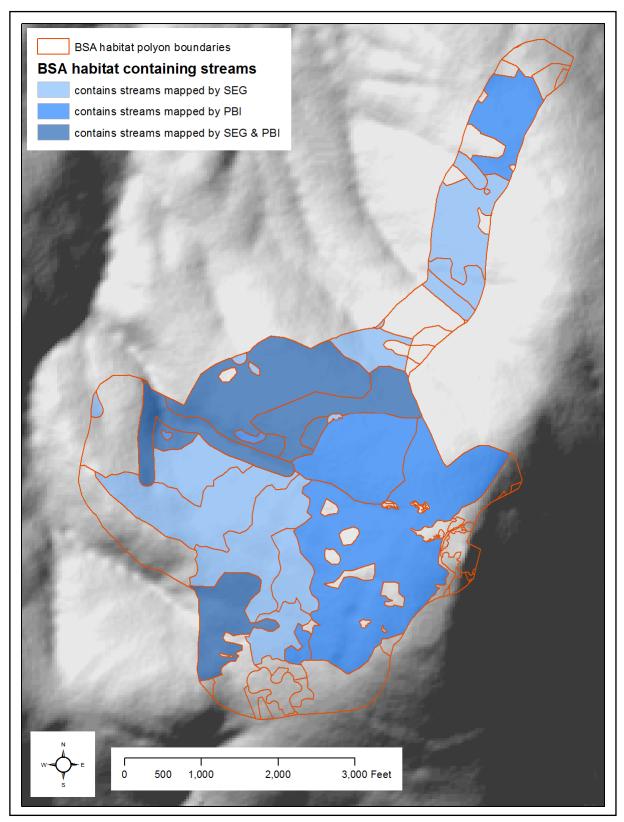


Figure 29. Polygons containing streams within the BSA.

Conclusions

We surveyed and mapped 325 habitat polygons in the SEIS analysis area and 92 habitat polygons within the Biological Survey Area (BSA). A wide diversity of habitat conditions was found in both areas. The biological survey area is dominated by subalpine and upper montane forests with patches of talus, meadows and small wetlands intermixed. The remainder of the SEIS analysis area is dominated by montane forests, also with meadows, talus, and small wetlands intermixed. Part of the SEIS analysis area consists of ski facilities and ski runs where vegetation management activities maintain habitat conditions in an early seral condition.

There are significant areas of old-growth forest within the BSA. These forests provide habitat for wildlife species dependent on late-successional forest condition. Much of the rest of the forests within the BSA also have some old, large trees and are moving toward old-growth conditions.

Nearly all the forest stands in the BSA have abundant large and small snags of various decay classes, providing abundant habitat for wildlife species that depend on snags for nesting, foraging and roosting. In some stands, snags are more common than live trees. Likewise, there is an abundance of coarse woody debris in the forests of the BSA. Many polygons within the BSA have very high levels of large coarse woody debris. There is no lack of habitat for wildlife species that depend on coarse woody debris for any of their life stages or activities within the BSA. Outside of the BSA, most forest stands also have abundant snags and coarse woody debris.

Most of the polygons within the BSA contain streams, springs and small wetlands. The north side of Mt. Spokane receives abundant moisture and holds the snowpack into the early summer. The resulting abundance of moisture is very evident throughout much of the BSA. The streams, springs and small wetlands that result provide habitat and water for many wildlife species, including many listed in Table 4 of this report.

In the western part of the BSA, it is readily apparent that the forests are unraveling due to a combination of root rot and blowdown during windstorms. Some of the habitat polygons that we mapped consisted largely of blowdown logs, snags and early successional shrubby and herbaceous vegetation along with small, young trees. As one moves east in the BSA, there is gradually less blowdown, but it appears that the root rot and blowdown may (or may not) be moving from the west to the east across the upper northern slopes of the mountain. The young trees that are growing in the blowdown areas will eventually form closed canopy, mature forests, but this will take many decades. The disturbance of the forest cause by the root rot and blowdown provide good habitat for some species at the same time it reduces habitat for species that depend on closed canopy, late-successional forest conditions.

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Appendix A Wildlife Habitat Attributes in the BSA Polygon Database

Attribute Code in Feature Attribute Table	Attribute Description
PolyID	polygon ID number
PA1	Primary plant association
PA1%	Primary plant association (percent of polygon)
PA2	Secondary plant association
PA2%	Secondary plant association (percent of polygon)
PA3	Tertiary plant association
PA3%	Tertiary plant association (percent of polygon)
trees	Tree canopy composition (species names)
tree%	Tree cover (percent cover)
shrubs	Shrub composition (species names)
shrub%	Shrub cover (percent cover)
herbs	Herbaceous composition (species names)
herb%	Herbaceous cover (percent cover)
СС	Canopy closure (percent)
layers	Number of tree canopy layers
qmd	Tree diameter distribution (quadratic mean diameter in inches)
talltree	Tree height of tallest tree (feet)
canopyht	Tree height of average tree (feet)
tpa	Tree density distribution (trees per acre)
ba	Basal area (square feet per acre)
sdi	Stand density index
bigtrees	Diameter of largest tree in area (inches dbh)
maxdbh	Minimum diameter of 8 largest trees (inches dbh)
qmd_snags	Snag diameter classes (quadratic mean diameter in inches)
snaght	Snag height classes (feet)
snags_p_ac	Snag density classes (snags per acre)
cwd%	Down woody debris cover (percent cover)
cwd_acre	Down woody debris distribution (pieces per acre)
substrate	Habitat substrate
special habitat features and wildlife observations	Special habitat features and ecological factors or wildlife habitat characteristics that may warrant special consideration
wetlands	presence of wetlands within the polygon
streams	presence of streams within the polygon
AgeClass	range of ages of the trees in the polygon
CC_1	Daubenmire canopy cover class (field estimate)
Notes	notes about the polygon
Observer	initials of field survey crew
Date	dates of field survey
Acres	acreage of the stand

 PA1:
 Developed
 PA1%:
 100

 PA2:
 ABLA/XETE
 PA2%:
 0

 PA3:
 PA3%:
 0

number of canopy layers: 2 basal area: 120 canopy closure: 40 stand density index: 200 trees per acre: 80 quadratic mean diameter: 14.74

biggest trees: 24 maxdbh: 19 tallest trees: 69 average canopy height:52

trees: ABLA, PSME, PIEN tree % cover: 40
shrubs: SOSC2 shrub % 5

herbs: CLUN2 herb % 15

quadratic mean diameter snags: 11.21 snag height: 36 snags per acre: 66.84

cwd % cover: 4 pieces of cwd per acre: 75

Streams:none observedWetlands:none observedsubstrate:duff & litterCC_1:3 AgeClass10-150

special habitat features and wildlife observations:

none observed

Notes: stand of big trees with roads, building and radio towers.

Acres: 0.75 **Observer:** JR **Date:** 7/16/2010

 PA1:
 ABLA/XETE
 PA1%: 100

 PA2:
 PA2%: 0

 PA3:
 PA3%: 0

number of canopy layers: 3 basal area: 143.66 canopy closure: 55 stand density index: 276.53 trees per acre: 250 quadratic mean diameter: 11.9

biggest trees: 17 maxdbh: 16 tallest trees: 64 average canopy height:52

trees: PICO, ABLA, PIEN, TSHE tree % cover: 60

shrubs: VAME, MEFE shrub % 19

herbs: XETE herb % 55

quadratic mean diameter snags: 10.17 snag height: 29 snags per acre: 217.16

cwd % cover: 11 pieces of cwd per acre: 280

Streams: mapped by PBI **Wetlands:** none observed

substrate: duff & litter CC_1: 4 AgeClass 40-100

special habitat features and wildlife observations:

many snags; many logs; contains mapped stream

Notes: Lots of snags & logs. Photos: 33-36

Acres: 28.78 **Observer:** GW **Date:** 6/29/2010

 PA1:
 ABLA/XETE
 PA1%:
 70

 PA2:
 ABLA/MEFE
 PA2%:
 30

 PA3:
 PA3%:
 0

number of canopy layers: 3 basal area: 122.24 canopy closure: 50 stand density index: 223.47 trees per acre: 150 quadratic mean diameter: 12.39

biggest trees: 18 maxdbh: 17 tallest trees: 71 average canopy height:60

trees:ABLA, ABGR, PICO, LAOC, PIMO, PSMEtree % cover:75shrubs:VAAL3, RILA, ACGL, VAME, MEFEshrub %32herbs:MAST4, XETE, CLUN2, ELGLherb %33

quadratic mean diameter snags: 10.27 snag height: 31 snags per acre: 162.41

cwd % cover: 11 pieces of cwd per acre: 300

Streams: mapped by SEG & PBI Wetlands: none observed substrate: duff & litter CC_1: 4 AgeClass 20-200

special habitat features and wildlife observations:

many snags; many logs; much regen; contains mapped stream

Notes: Photos: 56-60. Lots of snags, lots of logs, lots of ABLA & ABGR regen. 5-10 ft. high; rocky east part becomes MEFE.

Acres: 20.64 **Observer:** GW **Date:** 6/29/2010

 PA1:
 ABLA/XETE
 PA1%:
 100

 PA2:
 PA2%:
 0

 PA3:
 PA3%:
 0

number of canopy layers: 2basal area:60canopy closure: 5stand density index:90trees per acre: 5quadratic mean diameter:11

biggest trees: 14 maxdbh: 14 tallest trees: 55 average canopy height:40

trees: ABLA tree % cover: 5

shrubs: VAME shrub % 21

herbs: LUGLH, SETR, XETE herb % 47

quadratic mean diameter snags: 11 snag height: 26 snags per acre: 300

cwd % cover: 35 pieces of cwd per acre: 420

Streams: none observed **Wetlands:** none observed

substrate: duff & litter CC_1: 2 AgeClass 10-100

special habitat features and wildlife observations:

many logs; blowdown root rot patch

Notes: Blowdown - root rot patch. Photos: 26-30.

Acres: 0.73 **Observer:** PM **Date:** 6/29/2010

 PA1:
 ABLA/XETE
 PA1%:
 100

 PA2:
 PA2%:
 0

 PA3:
 PA3%:
 0

number of canopy layers: 2basal area:50canopy closure: 5stand density index:100trees per acre: 5quadratic mean diameter:11

biggest trees: 14 maxdbh: 14 tallest trees: 55 average canopy height:40

trees: ABLA tree % cover: 5

shrubs: VAME shrub % 20

herbs: LUGLH, SETR, CHAN9, XETE herb % 45

quadratic mean diameter snags: 11 snag height: 22 snags per acre: 400

cwd % cover: 40 pieces of cwd per acre: 420

Streams: none observed Wetlands: none observed

substrate: duff & litter CC_1: 2 AgeClass 10-90

special habitat features and wildlife observations:

many logs; blowdown root rot patch

Notes: Blowdown - root rot patch. Photos 31-32. LOTS OF STANDING SNAGS APPROX. 40/ACRE, 40-50 FT TALL, 8-14

INCH DBH, LOTS OF SMALL ABLA, LOTS OF LOGS 12 INCH DIA TO 6 INCH DIA.

Acres: 1 **Observer:** PM **Date:** 6/29/2010

 PA1:
 ABLA/XETE
 PA1%:
 90

 PA2:
 Developed
 PA2%:
 10

 PA3:
 PA3%:
 0

number of canopy layers: 2basal area:110canopy closure: 60stand density index:220trees per acre: 150quadratic mean diameter:11.5

biggest trees: 17 maxdbh: 16 tallest trees: 58 average canopy height:49

trees: ABLA tree % cover: 65

shrubs: SOSC2, VAME shrub % 5

herbs: LUGLH, XETE herb % 10

quadratic mean diameter snags: 10.23 snag height: 25 snags per acre: 10

cwd % cover: 8 pieces of cwd per acre: 100

Streams: none observed **Wetlands:** none observed

substrate: duff & litter CC_1: 4 AgeClass 10-150

special habitat features and wildlife observations:

none observed

Notes: Patchy forest with some ski runs.

Acres: 0.2 **Observer:** PM **Date:** 6/29/2010

 PA1:
 ABLA/VAME
 PA1%:
 70

 PA2:
 ABLA/CAGE2
 PA2%:
 30

 PA3:
 PA3%:
 0

number of canopy layers: 3basal area:140canopy closure: 60stand density index:270trees per acre: 185quadratic mean diameter:11.7

biggest trees: 17 maxdbh: 16 tallest trees: 49 average canopy height:41

trees: ABLA tree % cover: 60

shrubs: VAME, SOSC2 shrub % 5

herbs: CAGE2, LUGLH, CARO5 herb % 5

quadratic mean diameter snags: 11 snag height: 20 snags per acre: 10

cwd % cover: 4 pieces of cwd per acre: 200

Streams: none observed

Wetlands: none observed

substrate: duff & litter

CC_1: 5 AgeClass 10-200

special habitat features and wildlife observations:

none observed

Notes:

Acres: 1.06 **Observer:** GW **Date:** 6/29/2010

 PA1:
 ABLA/XETE
 PA1%:
 50

 PA2:
 ABLA/TRCA
 PA2%:
 50

 PA3:
 PA3%:
 0

number of canopy layers: 2 basal area: 70 canopy closure: 15 stand density index: 140 trees per acre: 20 quadratic mean diameter: 12

biggest trees: 14 maxdbh: 14 tallest trees: 54 average canopy height:47

trees: ABLA, PIEN, PICO, LAOC tree % cover: 25

shrubs: VAME, SARA2, RILA shrub % 20

herbs: XETE, CHAN9, VIGL, TRCA, SETR, ELGL herb % 44

quadratic mean diameter snags: 10.97 snag height: 29 snags per acre: 277.67

cwd % cover: 20 pieces of cwd per acre: 420

Streams: mapped by SEG **Wetlands:** none observed

substrate: duff & litter CC_1: 3 AgeClass 100

special habitat features and wildlife observations:

many logs; contains mapped stream

Notes: Waypoint 008 (GW; 6/28); contains springs, > 50/ACRE SNAGS 10-15 INCH DBH, >100 LOGS 10-18 INCH DIA,

LOTS OF BLOWDOWN, LOGS, SNAGS ROOT ROT

Acres: 9.44 **Observer:** GW, PM **Date:** 6/29/2010

 PA1:
 ABLA/XETE
 PA1%:
 60

 PA2:
 ABLA/VAME
 PA2%:
 40

 PA3:
 PA3%:
 0

number of canopy layers: 2 basal area: 132.66 canopy closure: 40 stand density index: 238.83 trees per acre: 170 quadratic mean diameter: 12

biggest trees: 21 maxdbh: 19 tallest trees: 80 average canopy height:76

trees: ABLA, PICO, LAOC, TSHE, ABGR, PIMO, PSME tree % cover: 65

shrubs: VAME, ALVIS, MEFE, LIBO3 shrub % 25

herbs: XETE, MAST4, SETR, ATFI herb % 57

quadratic mean diameter snags: 10.97 snag height: 33 snags per acre: 270.05

cwd % cover: 12 pieces of cwd per acre: 325

Streams: mapped by SEG **Wetlands:** none observed

substrate: duff & litter CC_1: 4 AgeClass 100-160

special habitat features and wildlife observations:

many snags; contains mapped stream

Notes: Overstory is mostly dead.

Acres: 30.54 **Observer:** GW, PM **Date:** 6/29/2010

 PA1:
 ABLA/MEFE
 PA1%:
 60

 PA2:
 ABLA/XETE
 PA2%:
 40

 PA3:
 PA3%:
 0

number of canopy layers: 3 basal area: 77.85 canopy closure: 50 stand density index: 142.63 trees per acre: 95 quadratic mean diameter: 12

biggest trees: 13 maxdbh: 12 tallest trees: 55 average canopy height:50

trees:ABLA, LAOC, PICO, PIENtree % cover:55shrubs:VAME, SOSC2, MEFE, VASCshrub %15

herbs: XETE, CLUN2 herb % 45

quadratic mean diameter snags: 12.06 snag height: 33 snags per acre: 118.55

cwd % cover: 12 pieces of cwd per acre: 303

Streams:mapped by SEG & PBIWetlands:none observedsubstrate:duff & litterCC_1:5 AgeClass20-125

special habitat features and wildlife observations:

many logs; contains mapped stream

Notes: Very shrubby understory.

Acres: 17.99 **Observer:** HS **Date:** 7/16/2010

 PA1:
 TSHE/MEFE
 PA1%:
 70

 PA2:
 TSHE/ATFI
 PA2%:
 30

 PA3:
 PA3%:
 0

number of canopy layers: 2 basal area: 153.49 canopy closure: 70 stand density index: 240 trees per acre: 185 quadratic mean diameter: 11.36

biggest trees: 22 maxdbh: 20 tallest trees: 90 average canopy height:86

trees:TSHE, PSME, PICO, LAOC, ABLAtree % cover:75shrubs:VAME, MEFE, ALVIS, RUPA, ARNU2shrub %28

herbs: CLUN2, ARCO9, TRCA, ELGL, ANPI herb % 54

quadratic mean diameter snags: 12 snag height: 31 snags per acre: 173.56

cwd % cover: 12 pieces of cwd per acre: 300

Streams: mapped by SEG Wetlands: none observed substrate: duff & litter CC_1: 5 AgeClass 10-200

special habitat features and wildlife observations:

old growth forest; contains mapped stream

Notes: In PA1, stand has 2-3 streams that are TSHE/ATFI.

Acres: 12.88 **Observer:** GW **Date:** 6/29/2010

 PA1:
 ABLA/MEFE
 PA1%:
 60

 PA2:
 ABLA/XETE
 PA2%:
 40

 PA3:
 PA3%:
 0

number of canopy layers: 2 basal area: 139.45 canopy closure: 60 stand density index: 248.94 trees per acre: 200 quadratic mean diameter: 11.5

biggest trees: 19 maxdbh: 18 tallest trees: 79 average canopy height:74

trees: ABLA, PICO, PIMO3, LAOC, PSME tree % cover: 65

shrubs: MEFE, VAME, LIBO3 shrub % 27

herbs: XETE herb % 55

quadratic mean diameter snags: 11.29 snag height: 32 snags per acre: 147.07

cwd % cover: 10 pieces of cwd per acre: 264

Streams: none observed **Wetlands:** none observed

substrate: duff & litter CC_1: 4 AgeClass 10-150

special habitat features and wildlife observations:

many snags; high PIMO3 regen

Notes: Lots of snags & PIMO regen.

Acres: 17.97 **Observer:** GW **Date:** 7/16/2010

 PA1:
 TSHE/CLUN2
 PA1%:
 60

 PA2:
 ABGR/ACGL
 PA2%:
 40

 PA3:
 PA3%:
 0

number of canopy layers: 3 basal area: 130 canopy closure: 80 stand density index: 220 trees per acre: 140 quadratic mean diameter: 12

biggest trees: 12 maxdbh: 12 tallest trees: 70 average canopy height:60

trees: ABGR, BEPA, POBAT, TSHE, THPL, PSME, LAOC tree % cover: 90

shrubs: ACGL, RUPA, ALVIS, LIBO3 shrub % 5

herbs: VIOR, CLUN2 herb % 10

quadratic mean diameter snags: 13 snag height: 35 snags per acre: 100

cwd % cover: 8 pieces of cwd per acre: 200

Streams: none observed **Wetlands:** none observed

substrate: duff & litter CC_1: 6 AgeClass 60

special habitat features and wildlife observations:

none observed

Notes: Young stand, dense ABGR regen, POBAT, some TSHE

Acres: 5.67 **Observer:** GW **Date:** 6/29/2010

 PA1:
 ABGR/ACGL/CLUN2
 PA1%:
 100

 PA2:
 PA2%:
 0

 PA3:
 PA3%:
 0

number of canopy layers: 3 basal area: 189.3 canopy closure: 85 stand density index: 345.99 trees per acre: 240 quadratic mean diameter: 12.01

biggest trees: 18 maxdbh: 18 tallest trees: 95 average canopy height:90

trees: ABGR. PICO, LAOC, PSME tree % cover: 90

shrubs: ACGL, RUPA, VAME, SPBE2 shrub % 13

herbs: CLUN2, MAST4, PYSE, TRCA, MOMA3 herb % 18

quadratic mean diameter snags: 11.06 snag height: 43 snags per acre: 326.74

cwd % cover: 6 pieces of cwd per acre: 150

Streams: mapped by SEG **Wetlands:** none observed

substrate: duff & litter CC_1: 5 AgeClass 80-120

special habitat features and wildlife observations:

contains mapped stream

Notes: Photos 130-131

Acres: 18.72 **Observer:** PM, GW **Date:** 6/29/2010

 PA1:
 TSHE/CLUN2
 PA1%:
 80

 PA2:
 TSHE/GYDR
 PA2%:
 20

 PA3:
 PA3%:
 0

number of canopy layers: 3 basal area: 189.36 canopy closure: 80 stand density index: 387.42 trees per acre: 370 quadratic mean diameter: 11

biggest trees: 19 maxdbh: 19 tallest trees: 88 average canopy height:84

trees: ABLA, TSHE, LAOC, PSME, PICO, ABGR tree % cover: 85

shrubs: VAME, ACGL, CHUM, LIBO3 shrub % 25

herbs: ARLA8, CLUN2, TITRU, XETE herb % 17

quadratic mean diameter snags: 10.34 snag height: 29 snags per acre: 301.23

cwd % cover: 12 pieces of cwd per acre: 275

Streams: none observed **Wetlands:** none observed

substrate: duff & litter CC_1: 6 AgeClass 150

special habitat features and wildlife observations:

none observed

Notes:

Acres: 9.25 **Observer:** PM, GW **Date:** 6/29/2010

 PA1:
 TSHE/CLUN2
 PA1%:
 100

 PA2:
 PA2%:
 0

 PA3:
 PA3%:
 0

number of canopy layers: 3 basal area: 159.5 canopy closure: 90 stand density index: 260.95 trees per acre: 165 quadratic mean diameter: 14.03

biggest trees: 24 maxdbh: 21 tallest trees: 85 average canopy height:80

trees: ABGR, BEPA, LAOC, PSME, TSHE, PICO tree % cover: 95

shrubs: ACGL, VAME, RILA, LIBO3 shrub % 5

herbs: MAST4, ARLA8, MOMA3, CLUN2, XETE, PYPI2 herb % 15

quadratic mean diameter snags: 15.8 snag height: 53 snags per acre: 188.17

cwd % cover: 10 pieces of cwd per acre: 254

Streams: mapped by PBI **Wetlands:** contains wetland

substrate: duff & litter CC_1: 5 AgeClass 120-200

special habitat features and wildlife observations:

old growth forest; contains mapped stream and small wetland

Notes: Photos 83-85, 106-108. (109-110 moist swale ALVIS-Mesic Forbs)

Acres: 17.56 **Observer:** PM **Date:** 6/29/2010

 PA1:
 ABLA/XETE
 PA1%:
 50

 PA2:
 ABLA/TRCA
 PA2%:
 50

 PA3:
 PA3%:
 0

number of canopy layers: 3 basal area: 147.94 canopy closure: 75 stand density index: 262.36 trees per acre: 185 quadratic mean diameter: 12.34

biggest trees: 20 maxdbh: 19 tallest trees: 86 average canopy height:80

trees: ABLA, LAOC, PICO, ABGR, PSME tree % cover: 80

shrubs: VAME, CHUM, RUPA, ACGL shrub % 25

herbs: ANPI, CLUN2, ARCO9, XETE herb % 30

quadratic mean diameter snags: 10.93 snag height: 45 snags per acre: 90.41

cwd % cover: 7 pieces of cwd per acre: 250

Streams: mapped by SEG & PBI **Wetlands:** none observed

substrate: duff & litter CC_1: 5 AgeClass 100

special habitat features and wildlife observations:

contains mapped stream

Notes: Photos 61-62. Photos of stream: 63-65 ABLA/TRCA, photos 72-74 lower

Acres: 41.94 **Observer:** PM, GW **Date:** 6/29/2010

 PA1:
 TSHE/CLUN2
 PA1%:
 70

 PA2:
 ABLA/XETE
 PA2%:
 30

 PA3:
 PA3%:
 0

number of canopy layers: 3 basal area: 134.54 canopy closure: 70 stand density index: 254.1 trees per acre: 200 quadratic mean diameter: 11.35

biggest trees: 18 maxdbh: 17 tallest trees: 77 average canopy height:68

trees: TSHE, PSME, LAOC, ABLA, PICO, ABGR tree % cover: 80

shrubs: VAME, LIBO3 shrub % 26

herbs: TRCA, CLUN2, XETE, PYAS herb % 23

quadratic mean diameter snags: 10.05 snag height: 29 snags per acre: 155.74

cwd % cover: 12 pieces of cwd per acre: 320

Streams: mapped by SEG **Wetlands:** none observed

substrate: duff & litter CC_1: 5 AgeClass 50-150

special habitat features and wildlife observations:

contains mapped stream

Notes: Transition between ABLA/XETE and TSHE below.

Acres: 8.23 **Observer:** GW **Date:** 7/16/2010

 PA1:
 ABLA/VAME
 PA1%:
 100

 PA2:
 PA2%:
 0

 PA3:
 PA3%:
 0

number of canopy layers: 2 basal area: 65.56 canopy closure: 10 stand density index: 124.26 trees per acre: 20 quadratic mean diameter: 11.5

biggest trees: 14 maxdbh: 14 tallest trees: 40 average canopy height:38

trees: ABLA, PIEN, PICO, PSME, TSHE tree % cover: 25

shrubs: RILA, SARA2, VAME shrub % 20

herbs: CHAN9, TRCA, MAST4 herb % 45

quadratic mean diameter snags: 11.88 snag height: 27 snags per acre: 150.87

cwd % cover: 20 pieces of cwd per acre: 420

Streams: mapped by SEG Wetlands: contains wetland

substrate: duff & litter CC_1: 3 AgeClass 40

special habitat features and wildlife observations:

springs present; many logs; contains mapped stream and small wetland

Notes: contains springs; see waypoints

Acres: 8.16 **Observer:** GW **Date:** 6/29/2010

 PA1:
 TSHE/CLUN2
 PA1%:
 100

 PA2:
 PA2%:
 0

 PA3:
 PA3%:
 0

number of canopy layers: 2basal area:120canopy closure: 50stand density index:200trees per acre:140quadratic mean diameter:12

biggest trees: 11 maxdbh: 11 tallest trees: 70 average canopy height:60

trees: TSHE, PSME, LAOC, ABLA, ABGR tree % cover: 60

 $\mathbf{shrubs:} \ \ \mathsf{VAME}, \mathsf{ACGL}, \mathsf{ALVIS}, \mathsf{RUPA} \\ \mathbf{shrub} \ \% \\ \mathbf{4}$

herbs: ARLA8, MAST4, MOMA3, CLUN2 herb % 15

quadratic mean diameter snags: 10 snag height: 35 snags per acre: 200

cwd % cover: 6 pieces of cwd per acre: 200

Streams:none observedWetlands:none observedsubstrate:duff & litterCC_1:5 AgeClass150-250

special habitat features and wildlife observations:

none observed

Notes: Photos 101-103, lower area photos 118-119.

Acres: 0.48 **Observer:** PM **Date:** 6/29/2010

 PA1:
 ABLA/XETE
 PA1%:
 100

 PA2:
 PA2%:
 0

 PA3:
 PA3%:
 0

number of canopy layers: 2 basal area: 133.24 canopy closure: 60 stand density index: 254.96 trees per acre: 150 quadratic mean diameter: 11.58

biggest trees: 17 maxdbh: 16 tallest trees: 56 average canopy height:46

trees: ABLA tree % cover: 60

shrubs: VAME, SOSC2 shrub % 5

herbs: XETE, LUGLH herb % 10

quadratic mean diameter snags: 10.15 snag height: 24 snags per acre: 10

cwd % cover: 7 pieces of cwd per acre: 100

Streams: none observed **Wetlands:** none observed

substrate: duff & litter CC_1: 5 AgeClass 10-200

special habitat features and wildlife observations:

none observed

Notes:

Acres: 0.08 **Observer:** GW **Date:** 6/29/2010

 PA1:
 ABLA/XETE
 PA1%:
 100

 PA2:
 PA2%:
 0

 PA3:
 PA3%:
 0

number of canopy layers: 2 basal area: 37.24 canopy closure: 25 stand density index: 65.68 trees per acre: 40 quadratic mean diameter: 12.6

biggest trees: 16 maxdbh: 12 tallest trees: 50 average canopy height:41

trees: ABLA, PSME, PICO tree % cover: 35

shrubs: VAME shrub % 30

herbs: XETE, CAGE2 herb % 29

quadratic mean diameter snags: 11.19 snag height: 11 snags per acre: 33.48

cwd % cover: 10 pieces of cwd per acre: 240

Streams: none observed **Wetlands:** none observed

substrate: duff & litter CC_1: 4 AgeClass 50-150

special habitat features and wildlife observations:

none observed

Notes: Photos JR491-92. Trails.

Acres: 0.56 **Observer:** JR **Date:** 7/16/2010

 PA1:
 TSHE/XETE
 PA1%:
 60

 PA2:
 ABLA/MEFE
 PA2%:
 40

 PA3:
 PA3%:
 0

number of canopy layers: 2 basal area: 157.71 canopy closure: 90 stand density index: 317.14 trees per acre: 350 quadratic mean diameter: 9.33

biggest trees: 20 maxdbh: 20 tallest trees: 94 average canopy height:93

trees: ABLA, TSHE, PICO, PSME, LAOC, ABGR, PIMO3 tree % cover: 95

shrubs: MEFE, VAME shrub % 8

herbs: XETE, ARCO9, CLUN2 herb % 28

quadratic mean diameter snags: 12 snag height: 17 snags per acre: 101.72

cwd % cover: 12 pieces of cwd per acre: 260

Streams: none observed Wetlands: none observed

substrate: duff & litter CC_1: 6 AgeClass 50-250

special habitat features and wildlife observations:

old growth forest

Notes: Peter's Photos of area (43-45) (from what was 164)

Acres: 17.99 **Observer:** PM, GW **Date:** 6/29/2010

 PA1:
 ABLA/MEFE
 PA1%:
 50

 PA2:
 ABLA/XETE
 PA2%:
 50

 PA3:
 PA3%:
 0

number of canopy layers: 2 basal area: 87.48 canopy closure: 15 stand density index: 148.39 trees per acre: 30 quadratic mean diameter: 12.39

biggest trees: 19 maxdbh: 15 tallest trees: 55 average canopy height:45

trees: ABLA, PSME, PIMO3, PIEN tree % cover: 35

shrubs: VAME, MEFE shrub % 20

herbs: EPILO, XETE herb % 30

quadratic mean diameter snags: 12.47 snag height: 25 snags per acre: 72.61

cwd % cover: 12 pieces of cwd per acre: 280

Streams: none observed Wetlands: none observed

substrate: duff & litter CC_1: 3 AgeClass 5-125

special habitat features and wildlife observations:

many logs

Notes: Older blowdown from ca 20 years ago; not much regen.

Acres: 7.98 **Observer:** GW **Date:** 7/16/2010

 PA1:
 PHDI3/FEVI-HICY
 PA1%: 100

 PA2:
 PA2%: 0

 PA3:
 PA3%: 0

number of canopy layers: 2basal area:10canopy closure: 2stand density index:50trees per acre: 5quadratic mean diameter:12

biggest trees: 18 maxdbh: 8 tallest trees: 38 average canopy height:36

trees: ABLA tree % cover: 2

shrubs: PHDI3 shrub % 3

herbs: HICY, ACMI2, FEVI, FEID herb % 60

quadratic mean diameter snags: 11.07 snag height: 24 snags per acre: 5

cwd % cover: 3 pieces of cwd per acre: 30

Streams: none observed **Wetlands:** none observed

substrate: sandy loam CC_1: 1 AgeClass 10

special habitat features and wildlife observations:

special PA

Notes: Small meadow patch, 1 unknown herb collected.

Acres: 0.44 **Observer:** PM **Date:** 6/29/2010

 PA1:
 FEVI-FEID
 PA1%:
 50

 PA2:
 PHDI3/ARCA7-IOST
 PA2%:
 50

 PA3:
 PA3%:
 0

number of canopy layers: 2basal area:40canopy closure: 5stand density index:50trees per acre: 5quadratic mean diameter:11

biggest trees: 16 maxdbh: 16 tallest trees: 55 average canopy height:40

trees: ABLA tree % cover: 5

shrubs: PHDI3, VAME shrub % 5

herbs: HICY, ARCA7, CARO2, JUPA, FEVI, FEID, LULE3, XETE, IOST herb % 60

quadratic mean diameter snags: 10.92 snag height: 10 snags per acre: 0.5

cwd % cover: 1 pieces of cwd per acre: 10

Streams: none observed **Wetlands:** none observed

substrate: sandy loam CC_1: 2 AgeClass 10

special habitat features and wildlife observations:

special PA

Notes: DENSE CARO2, SOME ABLA2 ENCROACHMENT. Shrub like Haplopappus.

Acres: 0.7 **Observer:** GW, PM **Date:** 6/29/2010

 PA1:
 FEVI-FEID
 PA1%:
 50

 PA2:
 PHDI3/FEVI-HICY
 PA2%:
 50

 PA3:
 PA3%:
 0

number of canopy layers: 2basal area:30canopy closure: 5stand density index:50trees per acre: 5quadratic mean diameter:10.86

biggest trees: 14 maxdbh: 14 tallest trees: 43 average canopy height:40

trees: ABLA tree % cover: 5

shrubs: PHDI3, VAME, SOSC2 shrub % 3

herbs: FEVI, HICY, LUPIN, ARCA7 herb % 60

quadratic mean diameter snags: 10.57 snag height: 10 snags per acre: 0.5

cwd % cover: 1 pieces of cwd per acre: 20

Streams: none observed **Wetlands:** none observed

substrate: sandy loam CC_1: 1 AgeClass 15

special habitat features and wildlife observations:

special PA

Notes:

Acres: 1.54 **Observer:** GW **Date:** 6/29/2010

 PA1:
 TSHE/ATFI
 PA1%:
 95

 PA2:
 RILA/Talus
 PA2%:
 5

 PA3:
 PA3%:
 0

number of canopy layers: 3 basal area: 246.74 canopy closure: 80 stand density index: 456.85 trees per acre: 250 quadratic mean diameter: 11.63

biggest trees: 20 maxdbh: 20 tallest trees: 95 average canopy height:90

trees: TSHE, ABGR, THPL, LAOC, PICO, ABLA tree % cover: 85

shrubs: RUPA, ACGL, RILA shrub % 16

herbs: ATFI, GYDR, TITRU herb % 25

quadratic mean diameter snags: 11.66 snag height: 34 snags per acre: 199.34

cwd % cover: 12 pieces of cwd per acre: 275

Streams: mapped by SEG Wetlands: none observed substrate: duff & litter CC_1: 5 AgeClass 100-200

special habitat features and wildlife observations:

old growth forest, stream present; RILA Talus is unique; special PA; contains mapped stream

Notes: Stream, photos 132-134. Patch of RILA/Talus seen Aug 29., just below main confluence of multiple streams.

Acres: 3.43 **Observer:** PM, GW **Date:** 6/29/2010

 PA1:
 TSHE/MEFE
 PA1%:
 80

 PA2:
 TSHE/ATFI
 PA2%:
 20

 PA3:
 PA3%:
 0

number of canopy layers: 3 basal area: 162.2 canopy closure: 85 stand density index: 327.23 trees per acre: 230 quadratic mean diameter: 9.54

biggest trees: 20 maxdbh: 20 tallest trees: 99 average canopy height:98

trees: TSHE, PICO, PIMO, ABGR, LAOC, tree % cover: 90

shrubs: MEFE, RUPA, VAME shrub % 15

herbs: CLUN2, ARCO9, ATFI herb % 27

quadratic mean diameter snags: 11.34 snag height: 31 snags per acre: 84.52

cwd % cover: 12 pieces of cwd per acre: 300

Streams: none observed Wetlands: none observed

substrate: duff & litter CC_1: 6 AgeClass 40-200

special habitat features and wildlife observations:

old growth forest

Notes:

Acres: 0.05 **Observer:** GW **Date:** 6/29/2010

 PA1:
 TSHE/GYDR
 PA1%:
 50

 PA2:
 TSHE/ATFI
 PA2%:
 50

 PA3:
 PA3%:
 0

number of canopy layers: 3 basal area: 150 canopy closure: 85 stand density index: 270.21 trees per acre: 230 quadratic mean diameter: 11.3

biggest trees: 22 maxdbh: 20 tallest trees: 100 average canopy height:95

trees: TSHE, ABGR, PIEN, ABLA, LAOC, PIMO3 tree % cover: 90

shrubs: ACGL, MEFE, RILA, ALVIS shrub % 25

herbs: ATFI, GYDR, CLUN2, ARCO9, PYAS herb % 52

quadratic mean diameter snags: 12.89 snag height: 28 snags per acre: 133.54

cwd % cover: 12 pieces of cwd per acre: 302

Streams:mapped by SEG & PBIWetlands:none observedsubstrate:duff & litterCC_1:6 AgeClass150-250

special habitat features and wildlife observations:

old growth forest; contains mapped stream

Notes: Photos 46-51 east fork

Acres: 14.89 **Observer:** PM, GW **Date:** 6/29/2010

 PA1:
 ABLA/MEFE
 PA1%:
 50

 PA2:
 ABLA/XETE
 PA2%:
 50

 PA3:
 PA3%:
 0

number of canopy layers: 2basal area:80canopy closure: 5stand density index:150trees per acre: 20quadratic mean diameter:12

biggest trees: 13 maxdbh: 12 tallest trees: 55 average canopy height:50

trees: TSHE, ABLA, LAOC, PICO tree % cover: 5

shrubs: VAME, MEFE, ALVIS shrub % 10

herbs: GYDR, ATFI herb % 50

quadratic mean diameter snags: 12 snag height: 33 snags per acre: 100

cwd % cover: 12 pieces of cwd per acre: 300

Streams: none observed **Wetlands:** none observed

substrate: duff & talus CC_1: 5 AgeClass 150

special habitat features and wildlife observations:

none observed

Notes:

Acres: 0.01 **Observer:** GW **Date:** 6/29/2010

 PA1:
 TSHE/XETE
 PA1%:
 100

 PA2:
 PA2%:
 0

 PA3:
 PA3%:
 0

number of canopy layers: 2basal area:150canopy closure: 90stand density index:310trees per acre: 350quadratic mean diameter:10

biggest trees: 20 maxdbh: 19 tallest trees: 97 average canopy height:96

trees: TSHE, PIMO3, PICO tree % cover: 95

shrubs: VAME, MEFE shrub % 8

herbs: XETE, PYPI2, CLUN2 herb % 25

quadratic mean diameter snags: 12 snag height: 26 snags per acre: 100

cwd % cover: 12 pieces of cwd per acre: 260

Streams: mapped by SEG **Wetlands:** none observed

substrate: duff & litter CC_1: 6 AgeClass 50-150

special habitat features and wildlife observations:

contains mapped stream

Notes:

Acres: 0.83 **Observer:** GW **Date:** 6/29/2010

 PA1:
 TSHE/ATFI
 PA1%:
 20

 PA2:
 ABGR/ACGL/CLUN2
 PA2%:
 80

 PA3:
 PA3%:
 0

number of canopy layers: 3 basal area: 160.79 canopy closure: 90 stand density index: 273.88 trees per acre: 150 quadratic mean diameter: 15.04

biggest trees: 23 maxdbh: 22 tallest trees: 85 average canopy height:80

trees: TSHE, ABGR, LAOC tree % cover: 95

shrubs: ACGL shrub % 7

herbs: ATFI, ACRU2, CLUN2, TRCA herb % 16

quadratic mean diameter snags: 13.45 snag height: 46 snags per acre: 201.42

cwd % cover: 7 pieces of cwd per acre: 233

Streams: mapped by SEG Wetlands: none observed

substrate: duff & litter CC_1: 6 AgeClass 150-200

special habitat features and wildlife observations:

old growth forest, stream present; contains mapped stream

Notes: Stream. This data from road crossing

Acres: 2.34 **Observer:** PM, GW **Date:** 6/29/2010

 PA1:
 TSHE/CLUN2
 PA1%:
 70

 PA2:
 ABGR/VAME/CLUN2
 PA2%:
 30

 PA3:
 PA3%:
 0

number of canopy layers: 3 basal area: 160.93 canopy closure: 80 stand density index: 317.93 trees per acre: 280 quadratic mean diameter: 10.86

biggest trees: 19 maxdbh: 18 tallest trees: 85 average canopy height:80

trees: TSHE, ABGR, LAOC, PICO tree % cover: 85

shrubs: VAME, LIBO3, RUPA shrub % 31

herbs: CLUN2, XETE herb % 25

quadratic mean diameter snags: 10.31 snag height: 29 snags per acre: 231.33

cwd % cover: 12 pieces of cwd per acre: 275

Streams: mapped by SEG **Wetlands:** none observed

substrate: duff & litter CC_1: 6 AgeClass 20-150

special habitat features and wildlife observations:

contains mapped stream

Notes:

Acres: 0.15 **Observer:** GW **Date:** 6/29/2010

 PA1:
 TSHE/GYDR
 PA1%:
 35

 PA2:
 TSHE/ATFI
 PA2%:
 20

 PA3:
 TSHE/CLUN2
 PA3%:
 45

number of canopy layers: 3 basal area: 123.93 canopy closure: 75 stand density index: 270 trees per acre: 140 quadratic mean diameter: 11.01

biggest trees: 21 maxdbh: 20 tallest trees: 108 average canopy height:102

trees: ABGR, TSHE, PSME, ABLA, LAOC tree % cover: 80

shrubs: RUPA, ACGL, RILA shrub % 15

herbs: ATFI, GYDR herb % 75

quadratic mean diameter snags: 16.41 snag height: 86 snags per acre: 12.65

cwd % cover: 8 pieces of cwd per acre: 280

Streams: mapped by SEG **Wetlands:** none observed

substrate: duff & litter CC_1: 6 AgeClass 50-300

special habitat features and wildlife observations:

old growth forest; contains mapped stream

Notes:

Acres: 0.46 **Observer:** GW **Date:** 6/29/2010

 PA1:
 ALVIS/Mesic Forb
 PA1%:
 100

 PA2:
 PA2%:
 0

 PA3:
 PA3%:
 0

number of canopy layers: 3basal area:100canopy closure: 15stand density index:120trees per acre: 150quadratic mean diameter:11.77

biggest trees: 20 maxdbh: 18 tallest trees: 81 average canopy height:71

 trees:
 ABLA
 tree % cover:
 25

 shrubs:
 ALVIS, RILA
 shrub %
 25

herbs: ATFI, CLCO3, MEPA, ACRU2, VIGL, SETR herb % 35

quadratic mean diameter snags: 9.59 snag height: 30 snags per acre: 187.99

cwd % cover: 2 pieces of cwd per acre: 80

Streams: mapped by PBI Wetlands: wetland

substrate: histosol CC_1: 1 AgeClass 25

special habitat features and wildlife observations:

moose and deer use; wetland; special PA; contains mapped stream

Notes: Photos 52-55. Wetland - moose & deer signs.

Acres: 0.91 **Observer:** PM **Date:** 6/29/2010

 PA1:
 ABLA/TRCA
 PA1%:
 50

 PA2:
 ALVIS/Mesic Forb
 PA2%:
 50

 PA3:
 PA3%:
 0

number of canopy layers: 3 basal area: 120 canopy closure: 30 stand density index: 254.31 trees per acre: 50 quadratic mean diameter: 11.48

biggest trees: 21 maxdbh: 20 tallest trees: 90 average canopy height:85

trees:ABLA, ABGRtree % cover:35shrubs:ALVIS, RILAshrub %34herbs:TRCA, SETR, CICO3, ELGL, MEPA, ACRU2herb %45

quadratic mean diameter snags: 11 snag height: 30 snags per acre: 10

cwd % cover: 4 pieces of cwd per acre: 50

Streams: mapped by SEG Wetlands: wetland substrate: duff & litter CC_1: 3 AgeClass 25

special habitat features and wildlife observations:

wetland; moose and deer use; special PA; contains mapped stream

Notes: Photos 66-71. Moose & deer signs. Wetland.

Acres: 0.34 **Observer:** PM **Date:** 6/29/2010

 PA1:
 ALVIS/Mesic Forb
 PA1%:
 50

 PA2:
 ABLA/TRCA
 PA2%:
 50

 PA3:
 PA3%:
 0

number of canopy layers: 3 basal area: 100 canopy closure: 25 stand density index: 80 trees per acre: 30 quadratic mean diameter: 11

biggest trees: 22 maxdbh: 20 tallest trees: 75 average canopy height:70

trees:ABLAtree % cover:30shrubs:ALVIS, RILAshrub %60herbs:ATFI, CLCO3, MAST4, SETR, MEPAherb %48

quadratic mean diameter snags: 10 snag height: 30 snags per acre: 5

cwd % cover: 1 pieces of cwd per acre: 20

Streams:none observedWetlands:wetlandsubstrate:histosolCC_1:2 AgeClass30

special habitat features and wildlife observations:

moose and deer use; wetland; special PA

Notes: Photos 75-78. Wetland. Moose & deer, lush.

Acres: 0.66 **Observer:** PM **Date:** 6/29/2010

 PA1:
 FEVI-FEID
 PA1%:
 80

 PA2:
 ABLA/VAME
 PA2%:
 20

 PA3:
 PA3%:
 0

number of canopy layers: 3 basal area: 60 canopy closure: 10 stand density index: 80 trees per acre: 50 quadratic mean diameter: 11

biggest trees: 17 maxdbh: 17 tallest trees: 55 average canopy height:40

trees: ABLA tree % cover: 10

shrubs: VAME shrub % 5

herbs: FEVI, ACMI2, HICY herb % 60

quadratic mean diameter snags: 10.62 snag height: 10 snags per acre: 0.5

cwd % cover: 1 pieces of cwd per acre: 20

Streams: none observed **Wetlands:** none observed

substrate: sandy loam CC_1: 3 AgeClass 40

special habitat features and wildlife observations:

special PA

Notes:

Acres: 1.62 **Observer:** GW **Date:** 6/29/2010

 PA1:
 ABLA/ATFI
 PA1%:
 100

 PA2:
 PA2%:
 0

 PA3:
 PA3%:
 0

number of canopy layers: 2 basal area: 68.71 canopy closure: 22 stand density index: 220 trees per acre: 50 quadratic mean diameter: 12.01

biggest trees: 16 maxdbh: 15 tallest trees: 53 average canopy height:45

trees:ABLA, TSHE, PICO, PIENtree % cover:35shrubs:SARA2, VAME, RILAshrub %35

herbs: ATFI, SETR, TRCA herb % 66

quadratic mean diameter snags: 10.93 snag height: 32 snags per acre: 305.26

cwd % cover: 30 pieces of cwd per acre: 500

Streams:mapped by SEG & PBIWetlands:none observedsubstrate:duff & litterCC_1:3 AgeClass10-100

special habitat features and wildlife observations:

many logs; contains mapped stream

Notes:

Acres: 2.04 **Observer:** GW **Date:** 6/29/2010

 PA1:
 Talus
 PA1%:
 100

 PA2:
 PA2%:
 0

 PA3:
 PA3%:
 0

number of canopy layers: 2 basal area: 60 canopy closure: 25 stand density index: 120 trees per acre: 60 quadratic mean diameter: 8

biggest trees: 16 maxdbh: 14 tallest trees: 44 average canopy height:35

 trees:
 ABLA
 tree % cover:
 30

 shrubs:
 VAME
 shrub %
 5

quadratic mean diameter snags: 10.15 snag height: 10 snags per acre: 0.5

cwd % cover: 5 pieces of cwd per acre: 100

Streams: none observed Wetlands: none observed substrate: talus CC_1: 3 AgeClass 10-200

special habitat features and wildlife observations:

good pika habitat

herbs: XETE

Notes:

Acres: 0.22 **Observer:** GW **Date:** 9/9/2010

herb %

5

 PA1:
 Talus
 PA1%:
 100

 PA2:
 PA2%:
 0

 PA3:
 PA3%:
 0

number of canopy layers: 2basal area:60canopy closure: 10stand density index:100trees per acre: 30quadratic mean diameter:8

biggest trees: 16 maxdbh: 14 tallest trees: 50 average canopy height:35

 trees:
 ABLA
 tree % cover:
 15

 shrubs:
 shrub %
 1

herbs: XETE herb % 10

quadratic mean diameter snags: 10.26 snag height: 10 snags per acre: 0.5

cwd % cover: 5 pieces of cwd per acre: 50

Streams: none observed Wetlands: none observed substrate: talus CC_1: 2 AgeClass 10-200

special habitat features and wildlife observations:

good pika habitat

Notes:

Acres: 0.06 **Observer:** GW **Date:** 9/9/2010

 PA1:
 ABLA/XETE
 PA1%:
 80

 PA2:
 Talus
 PA2%:
 20

 PA3:
 PA3%:
 0

number of canopy layers: 2basal area:120canopy closure: 40stand density index:200trees per acre:180quadratic mean diameter:11.7

biggest trees: 16 maxdbh: 16 tallest trees: 55 average canopy height:40

trees: ABLA tree % cover: 50
shrubs: VAME shrub % 4

herbs: XETE, CAGE2 herb % 5

quadratic mean diameter snags: 11 snag height: 10 snags per acre: 0.5

cwd % cover: 5 pieces of cwd per acre: 100

Streams: none observed

Wetlands: none observed

substrate: vegetated talus

CC_1: 4 AgeClass 10-200

special habitat features and wildlife observations:

none observed

Notes:

Acres: 0.14 **Observer:** GW **Date:** 6/29/2010

 PA1:
 Talus
 PA1%:
 95

 PA2:
 ABLA/XETE
 PA2%:
 3

 PA3:
 Developed
 PA3%:
 2

number of canopy layers:1basal area:3canopy closure:2stand density index:5trees per acre:10quadratic mean diameter:8

biggest trees: 9 maxdbh: 9 tallest trees: 45 average canopy height:0

trees: ABLA, LAOC tree % cover: 2

shrubs: SOSC2 shrub % 0

herbs: HISC, FEVI, XETE, ERUMM herb % 1

quadratic mean diameter snags: 10 snag height: 0 snags per acre: 0.5

cwd % cover: 0 pieces of cwd per acre: 0

Streams:none observedWetlands:none observedsubstrate:talusCC_1:2 AgeClass100-150

special habitat features and wildlife observations:

good pika habitat, pikas present

Notes: LARGE TALUS BLOCKS & A FEW TREE PATCHES

Acres: 3.58 **Observer:** PM, AY **Date:** 8/28/2010

 PA1:
 Talus
 PA1%:
 100

 PA2:
 PA2%:
 0

 PA3:
 PA3%:
 0

number of canopy layers: 2 basal area: 5 canopy closure: 2 stand density index: 20 trees per acre: 1 quadratic mean diameter: 8

biggest trees: 9 maxdbh: 9 tallest trees: 45 average canopy height:0

trees: ABLA tree % cover: 2

shrubs: shrub % 0

herbs: herb % 0

quadratic mean diameter snags: 10 snag height: 0 snags per acre: 0.5

cwd % cover: 0 pieces of cwd per acre: 0

Streams: none observed **Wetlands:** none observed

substrate: talus CC_1: 2 AgeClass 10-200

special habitat features and wildlife observations:

good pika habitat

Notes:

Acres: 0.16 **Observer:** GW **Date:** 6/29/2010

 PA1:
 Talus
 PA1%:
 100

 PA2:
 PA2%:
 0

 PA3:
 PA3%:
 0

number of canopy layers: 2basal area:10canopy closure: 5stand density index:20trees per acre: 5quadratic mean diameter:8

biggest trees: 9 maxdbh: 9 tallest trees: 45 average canopy height:0

trees: ABLA tree % cover: 5

shrubs: shrub % 0

herbs: herb % 0

quadratic mean diameter snags: 10 snag height: 0 snags per acre: 0.5

cwd % cover: 0 pieces of cwd per acre: 0

Streams: none observed **Wetlands:** none observed

substrate: talus CC_1: 3 AgeClass 10-200

special habitat features and wildlife observations:

good pika habitat

Notes:

Acres: 0.24 **Observer:** GW **Date:** 6/29/2010

 PA1:
 ABLA/XETE
 PA1%:
 50

 PA2:
 ABLA/VAME
 PA2%:
 50

 PA3:
 PA3%:
 0

number of canopy layers: 3 basal area: 153.82 canopy closure: 60 stand density index: 285.31 trees per acre: 200 quadratic mean diameter: 11.53

biggest trees: 19 maxdbh: 17 tallest trees: 78 average canopy height:68

trees: ABLA, PSME, LAOC, PICO, TSHE tree % cover: 75

shrubs: VAME, MEFE shrub % 20

herbs: EPAN, CYFR2, ARCO9, CLUN2, XETE herb % 11

quadratic mean diameter snags: 9.63 snag height: 28 snags per acre: 220.43

cwd % cover: 14 pieces of cwd per acre: 366

Streams: none observed Wetlands: none observed substrate: duff & litter and talus CC_1: 5 AgeClass 10-150

special habitat features and wildlife observations:

possible pika habitat

Notes: vegetated talus; continues up hill beyond the polygon; visited stand 2 times.

Acres: 1.03 **Observer:** GW **Date:** 6/29/2010

 PA1:
 Talus
 PA1%:
 90

 PA2:
 ABLA/Talus
 PA2%:
 10

 PA3:
 PA3%:
 0

number of canopy layers: 2basal area:5canopy closure: 2stand density index:10trees per acre: 10quadratic mean diameter:8

biggest trees: 9 maxdbh: 9 tallest trees: 45 average canopy height:0

trees: ABLA tree % cover: 2

shrubs: VAME, SOSC2 shrub % 3

herbs: XETE herb % 1

quadratic mean diameter snags: 10 snag height: 0 snags per acre: 0.5

cwd % cover: 0 pieces of cwd per acre: 0

Streams: none observed **Wetlands:** none observed

substrate: talus CC_1: 1 AgeClass 10-100

special habitat features and wildlife observations:

good pika habitat, pikas, red squirrels present

Notes: SMALLER TALUS, LESS STEEP THAN 289, PIKAS, RED SQUIRRELS

Acres: 1.55 **Observer:** PM, AY **Date:** 8/28/2010

 PA1:
 ABLA/ATFI
 PA1%:
 50

 PA2:
 ABLA/MEFE
 PA2%:
 50

 PA3:
 PA3%:
 0

number of canopy layers: 3 basal area: 67.19 canopy closure: 50 stand density index: 118.48 trees per acre: 75 quadratic mean diameter: 11.65

biggest trees: 16 maxdbh: 14 tallest trees: 55 average canopy height:50

trees: ABLA, PSME, PIEN, PICO tree % cover: 60

shrubs: MEFE shrub % 20

herbs: ATFI, TRCA, SETR, GYDR herb % 45

quadratic mean diameter snags: 12.6 snag height: 26 snags per acre: 81.4

cwd % cover: 12 pieces of cwd per acre: 286

Streams: none observed Wetlands: none observed

substrate: duff & litter CC_1: 4 AgeClass 50-150

special habitat features and wildlife observations:

stream present

Notes: Stream in open forest.

Acres: 0.11 **Observer:** GW **Date:** 7/16/2010

 PA1:
 TSHE/ATFI
 PA1%:
 60

 PA2:
 TSHE/MEFE
 PA2%:
 40

 PA3:
 PA3%:
 0

number of canopy layers: 3 basal area: 111.3 canopy closure: 45 stand density index: 197.3 trees per acre: 180 quadratic mean diameter: 10.04

biggest trees: 24 maxdbh: 24 tallest trees: 100 average canopy height:95

trees: TSHE, ABGR, ABLA, PIEN, PICO tree % cover: 60

shrubs: MEFE, ALVIS, ACGL shrub % 35

herbs: ATFI, TRCA, CIAL, CLCO3 herb % 85

quadratic mean diameter snags: 14 snag height: 5 snags per acre: 62.95

cwd % cover: 2 pieces of cwd per acre: 70

Streams: mapped by PBI Wetlands: wetland

substrate: histosol CC_1: 4 AgeClass 200

special habitat features and wildlife observations:

springs present; wetland; contains mapped stream

Notes: openings are springs; TSHE/MEFE is upland

Acres: 0.25 **Observer:** GW **Date:** 6/29/2010

 PA1:
 ALVIS/ATFI
 PA1%:
 100

 PA2:
 PA2%:
 0

 PA3:
 PA3%:
 0

number of canopy layers: 3 basal area: 100 canopy closure: 20 stand density index: 288.85 trees per acre: 20 quadratic mean diameter: 11

biggest trees: 19 maxdbh: 18 tallest trees: 90 average canopy height:80

 trees:
 ABGR
 tree % cover:
 30

 shrubs:
 ALVIS
 shrub %
 50

 herbs:
 ATFI, MAST4, CLCO3, SETR
 herb %
 25

quadratic mean diameter snags: 11.73 snag height: 46 snags per acre: 100

cwd % cover: 1 pieces of cwd per acre: 130

Streams:mapped by SEGWetlands:wetlandsubstrate:histosolCC_1:3 AgeClass30

 $special\ habit at\ features\ and\ wildlife\ observations:$

wetland with flow; special PA; contains mapped stream

Notes: wetland with flow

Acres: 0.09 **Observer:** GW **Date:** 6/29/2010

 PA1:
 ABGR/VAME/CLUN2
 PA1%:
 50

 PA2:
 ABLA/CLUN2
 PA2%:
 50

 PA3:
 PA3%:
 0

number of canopy layers: 3 basal area: 140 canopy closure: 70 stand density index: 280.22 trees per acre: 100 quadratic mean diameter: 14.4

biggest trees: 24 maxdbh: 22 tallest trees: 85 average canopy height:80

trees: ABGR, ABLA, PSME, LAOC tree % cover: 75

shrubs: RILA shrub % 6

herbs: ACRU, CLUN2, MAST4 herb % 20

quadratic mean diameter snags: 14.53 snag height: 51 snags per acre: 165

cwd % cover: 4 pieces of cwd per acre: 200

Streams: none observed **Wetlands:** none observed

substrate: duff & litter CC_1: 5 AgeClass 10-250

special habitat features and wildlife observations:

old growth forest

Notes: blowdown and intact older PSME and ABGR above spring

Acres: 0.09 **Observer:** GW **Date:** 6/29/2010

 PA1:
 ALVIS/Mesic Forb
 PA1%:
 100

 PA2:
 PA2%:
 0

 PA3:
 PA3%:
 0

number of canopy layers: 2 basal area: 40 canopy closure: 10 stand density index: 60 trees per acre: 10 quadratic mean diameter: 11

biggest trees: 16 maxdbh: 15 tallest trees: 58 average canopy height:50

trees:ABLA, PICO, LAOCtree % cover:15shrubs:ALVIS, RHAL, SARA2, RILAshrub %38herbs:ATFI, SETR, MAST4herb %58

quadratic mean diameter snags: 10 snag height: 30 snags per acre: 20

cwd % cover: 1 pieces of cwd per acre: 40

Streams:mapped by SEGWetlands:wetlandsubstrate:histosolCC_1:3 AgeClass10-150

special habitat features and wildlife observations:

moose use; bear use; wetland; special PA; contains mapped stream

Notes: moose wallow and lots of bear scat

Acres: 0.32 **Observer:** GW **Date:** 6/29/2010

 PA1:
 ABLA/XETE
 PA1%:
 80

 PA2:
 Talus
 PA2%:
 20

 PA3:
 PA3%:
 0

number of canopy layers: 2basal area:100canopy closure: 40stand density index:120trees per acre:180quadratic mean diameter:11.7

biggest trees: 16 maxdbh: 16 tallest trees: 55 average canopy height:40

trees: ABLA tree % cover: 45

shrubs: VAME shrub % 4

herbs: XETE herb % 5

quadratic mean diameter snags: 11 snag height: 10 snags per acre: 200.97

cwd % cover: 5 pieces of cwd per acre: 100

Streams: none observed

Wetlands: none observed

substrate: vegetated talus

CC_1: 5 AgeClass 10-200

special habitat features and wildlife observations:

none observed

Notes:

Acres: 0.12 **Observer:** GW **Date:** 6/29/2010

 PA1:
 ABLA/XETE
 PA1%:
 80

 PA2:
 Talus
 PA2%:
 20

 PA3:
 PA3%:
 0

number of canopy layers: 2basal area:120canopy closure: 50stand density index:200trees per acre: 180quadratic mean diameter:11.7

biggest trees: 16 maxdbh: 16 tallest trees: 55 average canopy height:40

trees: ABLA tree % cover: 60

shrubs: VAME shrub% 4

herbs: XETE herb % 5

quadratic mean diameter snags: 11 snag height: 10 snags per acre: 213.49

cwd % cover: 5 pieces of cwd per acre: 100

Streams: none observed

Wetlands: none observed

substrate: vegetated talus

CC_1: 5 AgeClass 10-200

special habitat features and wildlife observations:

none observed

Notes:

Acres: 0.06 **Observer:** GW **Date:** 6/29/2010

 PA1:
 ABLA/VAME
 PA1%: 100

 PA2:
 PA2%: 0

 PA3:
 PA3%: 0

number of canopy layers: 3basal area:140canopy closure: 40stand density index:270trees per acre:180quadratic mean diameter:11.7

biggest trees: 16 maxdbh: 16 tallest trees: 55 average canopy height:40

 trees:
 ABLA
 tree % cover:
 50

 shrubs:
 VAME
 shrub %
 3

herbs: CARO5, CAGE2, LUGLH, XETE herb % 5

quadratic mean diameter snags: 11 snag height: 10 snags per acre: 0.5

cwd % cover: 5 pieces of cwd per acre: 100

Streams: none observed

Wetlands: none observed

substrate: vegetated talus

CC_1: 4 AgeClass 10-200

special habitat features and wildlife observations:

none observed

Notes:

Acres: 0.03 **Observer:** GW **Date:** 6/29/2010

 PA1:
 ABLA/XETE
 PA1%:
 100

 PA2:
 PA2%:
 0

 PA3:
 PA3%:
 0

number of canopy layers: 2 basal area: 140 canopy closure: 60 stand density index: 270 trees per acre: 180 quadratic mean diameter: 11.7

biggest trees: 16 maxdbh: 16 tallest trees: 52 average canopy height:45

trees: ABLA tree % cover: 60

 shrubs:
 SOSC2
 shrub %
 4

 herbs:
 XETE, LUGLH
 herb %
 5

quadratic mean diameter snags: 11 snag height: 10 snags per acre: 10

cwd % cover: 5 pieces of cwd per acre: 100

Streams: none observed **Wetlands:** none observed

substrate: vegetated talus CC_1: 4 AgeClass 120

special habitat features and wildlife observations:

possible pika habitat

Notes: TALUS SUBSTRATE

Acres: 0.06 **Observer:** GW **Date:** 6/29/2010

 PA1:
 ABLA/XETE
 PA1%:
 100

 PA2:
 PA2%:
 0

 PA3:
 PA3%:
 0

number of canopy layers: 3basal area:140canopy closure: 60stand density index:270trees per acre: 185quadratic mean diameter:11.7

biggest trees: 17 maxdbh: 16 tallest trees: 53 average canopy height:44

 trees:
 ABLA
 tree % cover:
 60

 shrubs:
 SOSC2
 shrub %
 5

herbs: XETE, LUGLH herb % 5

quadratic mean diameter snags: 11 snag height: 20 snags per acre: 10

cwd % cover: 9 pieces of cwd per acre: 200

Streams: none observed **Wetlands:** none observed

substrate: duff & litter and talus CC_1: 4 AgeClass 120

special habitat features and wildlife observations:

possible pika habitat

Notes: TALUS SUBSTRATE

Acres: 0.13 **Observer:** GW **Date:** 6/29/2010

 PA1:
 ABLA/XETE
 PA1%:
 100

 PA2:
 PA2%:
 0

 PA3:
 PA3%:
 0

number of canopy layers: 3 basal area: 140.9 canopy closure: 60 stand density index: 269.22 trees per acre: 200 quadratic mean diameter: 11.7

biggest trees: 17 maxdbh: 16 tallest trees: 52 average canopy height:43

trees: ABLA tree % cover: 60

shrubs: VAME, SOSC2 shrub % 5

herbs: XETE, LUGLH, CARO5, CAGE2 herb % 8

quadratic mean diameter snags: 11 snag height: 20 snags per acre: 10

cwd % cover: 8 pieces of cwd per acre: 196

Streams: none observed Wetlands: none observed

substrate: duff & litter CC_1: 5 AgeClass 10-150

special habitat features and wildlife observations:

none observed

Notes:

Acres: 0.42 **Observer:** GW, PM **Date:** 6/29/2010

 PA1:
 ABLA/VAME
 PA1%: 100

 PA2:
 PA2%: 0

 PA3:
 PA3%: 0

number of canopy layers:1basal area:140canopy closure:60stand density index:270trees per acre:150quadratic mean diameter:11.7

biggest trees: 16 maxdbh: 16 tallest trees: 52 average canopy height:44

trees:ABLAtree % cover:60shrubs:VAME5

herbs: CAGE2, LUGLH, CARO5 herb % 8

quadratic mean diameter snags: 11 snag height: 20 snags per acre: 10

cwd % cover: 9 pieces of cwd per acre: 200

Streams:none observedWetlands:none observedsubstrate:duff & litterCC_1:5 AgeClass10-200

special habitat features and wildlife observations:

none observed

Notes:

Acres: 0.2 **Observer:** GW **Date:** 6/29/2010

 PA1:
 ABLA/VAME
 PA1%:
 100

 PA2:
 PA2%:
 0

 PA3:
 PA3%:
 0

number of canopy layers: 1 basal area: 143.34 canopy closure: 60 stand density index: 274.24 trees per acre: 150 quadratic mean diameter: 11.7

biggest trees: 17 maxdbh: 16 tallest trees: 52 average canopy height:43

trees: ABLA tree % cover: 60

shrubs: VAME, SOSC2 shrub % 5

herbs: CAGE2, LUGLH, CARO5 herb % 8

quadratic mean diameter snags: 11 snag height: 20 snags per acre: 10

cwd % cover: 8 pieces of cwd per acre: 198

Streams: none observed Wetlands: none observed

substrate: duff & litter CC_1: 5 AgeClass 10-200

special habitat features and wildlife observations:

none observed

Notes:

Acres: 0.21 **Observer:** GW **Date:** 6/29/2010

 PA1:
 ABLA/XETE
 PA1%:
 100

 PA2:
 PA2%:
 0

 PA3:
 PA3%:
 0

number of canopy layers: 2 basal area: 60 canopy closure: 30 stand density index: 120 trees per acre: 80 quadratic mean diameter: 11.7

biggest trees: 17 maxdbh: 16 tallest trees: 49 average canopy height:41

trees: ABLA tree % cover: 35

shrubs: SOSC2, VAME shrub % 4

herbs: XETE, CAGE2, CACA4 herb % 10

quadratic mean diameter snags: 11.06 snag height: 20 snags per acre: 10

cwd % cover: 3 pieces of cwd per acre: 199

Streams:none observedWetlands:none observedsubstrate:duff & litterCC_1:3 AgeClass10-200

special habitat features and wildlife observations:

none observed

Notes:

Acres: 0.2 **Observer:** GW **Date:** 6/29/2010

 PA1:
 ABLA/XETE
 PA1%:
 40

 PA2:
 ABLA/MEFE
 PA2%:
 30

 PA3:
 TSHE/MEFE
 PA3%:
 30

number of canopy layers: 3 basal area: 159.1 canopy closure: 60 stand density index: 287.28 trees per acre: 200 quadratic mean diameter: 11.76

biggest trees: 19 maxdbh: 17 tallest trees: 77 average canopy height:66

trees: ABLA, PICO, LAOC, PIMO, TSHE, ABGR tree % cover: 75

shrubs: MEFE, VAME shrub % 18

herbs: XETE, CLUN2 herb % 10

quadratic mean diameter snags: 9.25 snag height: 27 snags per acre: 241.25

cwd % cover: 15 pieces of cwd per acre: 412

Streams: none observed Wetlands: none observed substrate: duff & litter and talus CC_1: 5 AgeClass 10-150

special habitat features and wildlife observations:

possible pika habitat

Notes: Some talus stringers here.

Acres: 1.26 **Observer:** GW **Date:** 7/16/2010

 PA1:
 ABLA/XETE
 PA1%:
 100

 PA2:
 PA2%:
 0

 PA3:
 PA3%:
 0

number of canopy layers: 3 basal area: 150.54 canopy closure: 70 stand density index: 275.3 trees per acre: 200 quadratic mean diameter: 11.71

biggest trees: 19 maxdbh: 17 tallest trees: 76 average canopy height:66

trees: ABLA, LAOC, PICO tree % cover: 80

shrubs: MEFE, VAME shrub % 18

herbs: XETE, ANPI herb % 10

quadratic mean diameter snags: 9.5 snag height: 27 snags per acre: 218.45

cwd % cover: 14 pieces of cwd per acre: 366

Streams: none observed **Wetlands:** none observed

substrate: duff & litter CC_1: 5 AgeClass 50-150

special habitat features and wildlife observations:

none observed

Notes:

Acres: 0.52 **Observer:** GW **Date:** 6/29/2010

 PA1:
 ABLA/XETE
 PA1%:
 80

 PA2:
 ABLA/LUGLH
 PA2%:
 20

 PA3:
 PA3%:
 0

number of canopy layers: 3 basal area: 141.75 canopy closure: 60 stand density index: 273.36 trees per acre: 205 quadratic mean diameter: 11.87

biggest trees: 17 maxdbh: 16 tallest trees: 55 average canopy height:45

trees: PICO, ABLA, LAOC, PSME, PIEN, TSHE tree % cover: 65

shrubs: MEFE, VAME shrub % 10

herbs: XETE, ANPI, CAGE2, ARLA8, MAST4, LUGLH herb % 15

quadratic mean diameter snags: 10.9 snag height: 20 snags per acre: 300

cwd % cover: 9 pieces of cwd per acre: 180

Streams: mapped by PBI Wetlands: contains wetland

substrate: duff & litter CC_1: 5 AgeClass 50-150

special habitat features and wildlife observations:

contains mapped stream and small wetland

Notes: Top of stand has more LUGLH, less XETE. UPDATED 8/29/2010 (PM)

Acres: 88.75 **Observer:** PM **Date:** 6/29/2010

 PA1:
 ABLA/XETE
 PA1%:
 100

 PA2:
 PA2%:
 0

 PA3:
 PA3%:
 0

number of canopy layers: 2 basal area: 76.16 canopy closure: 20 stand density index: 134.02 trees per acre: 40 quadratic mean diameter: 12.05

biggest trees: 17 maxdbh: 15 tallest trees: 50 average canopy height:40

trees: ABLA, PSME, PICO tree % cover: 30
shrubs: SOSC2, PREM shrub % 15

herbs: LUGLH, ELGL, XETE herb % 23

quadratic mean diameter snags: 13.3 snag height: 25 snags per acre: 79.04

cwd % cover: 10 pieces of cwd per acre: 214

Streams: none observed **Wetlands:** none observed

substrate: duff & litter CC_1: 3 AgeClass 10-50

special habitat features and wildlife observations:

diverse flora; many logs

Notes: Diverse shrub & herb cover. Photos 40-42.

Acres: 0.62 **Observer:** PM **Date:** 6/29/2010

 PA1:
 ABLA/XETE
 PA1%:
 60

 PA2:
 ABLA/CARU
 PA2%:
 40

 PA3:
 PA3%:
 0

number of canopy layers: 2 basal area: 59.39 canopy closure: 20 stand density index: 102.91 trees per acre: 40 quadratic mean diameter: 12.49

biggest trees: 17 maxdbh: 14 tallest trees: 45 average canopy height:36

trees: ABLA, PSME, PICO tree % cover: 30

shrubs: SOSC2 shrub % 10

herbs: XETE, LUGLH, CAGE2, CARU herb % 30

quadratic mean diameter snags: 15.22 snag height: 21 snags per acre: 39.76

cwd % cover: 5 pieces of cwd per acre: 100

Streams:none observedWetlands:none observedsubstrate:duff & litterCC_1:4 AgeClass50-200+

special habitat features and wildlife observations:

many logs

Notes:

Acres: 1.38 **Observer:** HS **Date:** 7/16/2010

 PA1:
 ABLA/XETE
 PA1%:
 80

 PA2:
 ALVIS/Mesic Forb
 PA2%:
 20

 PA3:
 PA3%:
 0

number of canopy layers: 3 basal area: 130 canopy closure: 40 stand density index: 258.09 trees per acre: 100 quadratic mean diameter: 14.23

biggest trees: 23 maxdbh: 18 tallest trees: 65 average canopy height:50

trees: ABLA, PSME, PIEN tree % cover: 50

shrubs: ALVIS, SOSC2 shrub % 15

herbs: TRCA, MAST4, CLUN2, MEPA, THOC herb % 17

quadratic mean diameter snags: 11.72 snag height: 33 snags per acre: 67.49

cwd % cover: 5 pieces of cwd per acre: 100

Streams: none observed

Wetlands: none observed

substrate: duff & litter

CC_1: 5 AgeClass 50-200+

special habitat features and wildlife observations:

stream present; special PA

Notes: Photos JR489-90; stream.

Acres: 2.16 **Observer:** JR **Date:** 7/16/2010

 PA1:
 ALVIS/SETR
 PA1%:
 80

 PA2:
 CASCP
 PA2%:
 10

 PA3:
 SETR-VECA2
 PA3%:
 10

number of canopy layers: 2 basal area: 93.34 canopy closure: 20 stand density index: 180 trees per acre: 20 quadratic mean diameter: 12.68

biggest trees: 19 maxdbh: 16 tallest trees: 52 average canopy height:42

trees:ABLA, PIENtree % cover:30shrubs:ALVIS, SOSC2shrub %50herbs:SETR, PTAQ, TRCA, CLCO3, CASCPherb %35

quadratic mean diameter snags: 13.29 snag height: 26 snags per acre: 67.6

cwd % cover: 3 pieces of cwd per acre: 30

Streams:none observedWetlands:wetlandsubstrate:histosolCC_1:3 AgeClass5-50

special habitat features and wildlife observations:

wetland complex; special PA

Notes: ALVIS/SETR part is mesic, not wet, on the north side. SETR-VECA2 known from OR, Bourgeron & Engelking, 1994.

Acres: 4.83 **Observer:** GW **Date:** 7/16/2010

 PA1:
 ABLA/LUGLH
 PA1%: 40

 PA2:
 ALVIS/Mesic Forb
 PA2%: 30

 PA3:
 ABLA/XETE
 PA3%: 30

number of canopy layers: 2 basal area: 77.61 canopy closure: 15 stand density index: 144.18 trees per acre: 40 quadratic mean diameter: 12

biggest trees: 16 maxdbh: 15 tallest trees: 41 average canopy height:37

trees: ABLA, PIEN, PICO, PSME, TSHE tree % cover: 25

shrubs: SARA2, SOSC2 shrub % 10

herbs: MEPA, LUGLH, VIGL herb % 35

quadratic mean diameter snags: 12.16 snag height: 24 snags per acre: 132.37

cwd % cover: 20 pieces of cwd per acre: 300

Streams: mapped by PBI Wetlands: contains wetland

substrate: duff & litter CC_1: 3 AgeClass 120

special habitat features and wildlife observations:

stream present; many logs; special PA; contains mapped stream and small wetland

Notes: ALVIS/Mesic forb with stream in South part of stand and unknown grass. No XETE seen.

Acres: 2.39 **Observer:** GW **Date:** 6/29/2010

 PA1:
 ABLA/XETE
 PA1%:
 50

 PA2:
 TSHE/CLUN2
 PA2%:
 50

 PA3:
 PA3%:
 0

number of canopy layers: 2 basal area: 57.02 canopy closure: 10 stand density index: 103.49 trees per acre: 30 quadratic mean diameter: 11.41

biggest trees: 16 maxdbh: 14 tallest trees: 45 average canopy height:39

trees: ABLA, PICO, PSME tree % cover: 25

shrubs: VAME, SOSC2 shrub % 15

quadratic mean diameter snags: 13.69 snag height: 24 snags per acre: 78.34

cwd % cover: 12 pieces of cwd per acre: 300

Streams: none observed Wetlands: none observed

substrate: duff & litter CC_1: 3 AgeClass 10-200

special habitat features and wildlife observations:

old growth; many logs

Notes: old growth with springs above; wet bordering ALVIS to south.

Acres: 2.07 **Observer:** GW **Date:** 6/29/2010

 PA1:
 TSHE/ATFI
 PA1%:
 30

 PA2:
 TSHE/CLUN2
 PA2%:
 70

 PA3:
 PA3%:
 0

number of canopy layers: 3 basal area: 313 canopy closure: 90 stand density index: 545.78 trees per acre: 265 quadratic mean diameter: 13.72

biggest trees: 22 maxdbh: 21 tallest trees: 100 average canopy height:95

trees: TSHE, ABGR, LAOC, PSME, ABLA tree % cover: 95

shrubs: RUPA shrub % 12

herbs: CLUN2, ATFI, MAST4, PYSE, TRCA herb % 26

quadratic mean diameter snags: 13.89 snag height: 39 snags per acre: 140.1

cwd % cover: 10 pieces of cwd per acre: 240

Streams: mapped by SEG **Wetlands:** none observed

substrate: duff & litter CC_1: 6 AgeClass 10-200

special habitat features and wildlife observations:

old growth forest; contains mapped stream

Notes:

Acres: 5.06 **Observer:** GW **Date:** 6/29/2010

 PA1:
 ABGR/VAME/CLUN2
 PA1%:
 60

 PA2:
 TSHE/CLUN2
 PA2%:
 40

 PA3:
 PA3%:
 0

number of canopy layers: 3 basal area: 158.71 canopy closure: 85 stand density index: 280.85 trees per acre: 185 quadratic mean diameter: 13.51

biggest trees: 20 maxdbh: 19 tallest trees: 85 average canopy height:80

trees: ABGR, LAOC, PICO, TSHE tree % cover: 90

shrubs: ACGL, VAME shrub % 9

herbs: CLUN2, PTAQ, ATFI herb % 16

quadratic mean diameter snags: 12.17 snag height: 46 snags per acre: 281.6

cwd % cover: 7 pieces of cwd per acre: 230

Streams: none observed **Wetlands:** none observed

substrate: duff & litter CC_1: 5 AgeClass 150

special habitat features and wildlife observations:

none observed

Notes: Photos 80-82ab

Acres: 1.03 **Observer:** PM **Date:** 6/29/2010

 PA1:
 ABGR/ACGL/CLUN2
 PA1%:
 80

 PA2:
 TSHE/CLUN2
 PA2%:
 20

 PA3:
 PA3%:
 0

number of canopy layers: 3 basal area: 165.19 canopy closure: 90 stand density index: 264.79 trees per acre: 150 quadratic mean diameter: 14

biggest trees: 27 maxdbh: 25 tallest trees: 78 average canopy height:71

trees: ABGR, PSME, LAOC, TSHE tree % cover: 95

shrubs: ACGL, VAME, LIBO3 shrub % 5

herbs: CLUN2, MAST4, ANPI, ARLA8 herb % 15

quadratic mean diameter snags: 15.77 snag height: 50 snags per acre: 103.76

cwd % cover: 9 pieces of cwd per acre: 254

Streams: none observed Wetlands: none observed

substrate: duff & litter CC_1: 6 AgeClass 40-200

special habitat features and wildlife observations:

old growth forest

Notes: From bottom, photos 128-129. Merged with upper part of George's polygon.

Acres: 3.7 **Observer:** PM, GW **Date:** 6/29/2010

 PA1:
 TSHE/MEFE
 PA1%:
 40

 PA2:
 TSHE/ATFI
 PA2%:
 30

 PA3:
 TSHE/CLUN2
 PA3%:
 30

number of canopy layers: 3basal area:150canopy closure: 70stand density index:260trees per acre: 210quadratic mean diameter:11.5

biggest trees: 24 maxdbh: 23 tallest trees: 101 average canopy height:97

trees: TSHE, LAOC, PIEN, ABGR, ABLA tree % cover: 75

shrubs: MEFE, ALVIS, VAME shrub % 25

herbs: TRCA, MAST4, ARCO9, XETE herb % 74

quadratic mean diameter snags: 13.89 snag height: 14 snags per acre: 105.45

cwd % cover: 8 pieces of cwd per acre: 250

Streams: mapped by SEG & PBI **Wetlands:** none observed

substrate: duff & litter CC_1: 5 AgeClass 50-200

special habitat features and wildlife observations:

old growth forest; contains mapped stream

Notes:

Acres: 2.99 **Observer:** GW **Date:** 6/29/2010

 PA1:
 ABLA/XETE
 PA1%:
 50

 PA2:
 TSHE/XETE
 PA2%:
 50

 PA3:
 PA3%:
 0

number of canopy layers: 2 basal area: 100 canopy closure: 25 stand density index: 200 trees per acre: 70 quadratic mean diameter: 12

biggest trees: 15 maxdbh: 13 tallest trees: 65 average canopy height:59

trees: ABLA, PICO, PSME, LAOC, TSHE tree % cover: 45

shrubs: VAME, LIBO3, SOSC2 shrub % 31

herbs: GATR3, ELGL, ANPI, VIOLA, XETE herb % 48

quadratic mean diameter snags: 11.13 snag height: 33 snags per acre: 229.87

cwd % cover: 13 pieces of cwd per acre: 368

Streams: mapped by SEG Wetlands: none observed

substrate: duff & litter CC_1: 4 AgeClass 1-150

special habitat features and wildlife observations:

many snags; many logs; red squirrels present; contains mapped stream

Notes: Lots of logs, snags. Difficult to move through. Photos 37-39. RED SQUIRRELS, LOTS OF CATEPILLARS

Acres: 25.22 **Observer:** PM **Date:** 6/29/2010

 PA1:
 TSHE/CLUN2
 PA1%:
 100

 PA2:
 PA2%:
 0

 PA3:
 PA3%:
 0

number of canopy layers: 3 basal area: 150 canopy closure: 91 stand density index: 246.97 trees per acre: 165 quadratic mean diameter: 12

biggest trees: 15 maxdbh: 15 tallest trees: 85 average canopy height:80

trees: TSHE, PSME, ABGR, LAOC tree % cover: 95

shrubs: VAME, CHUM shrub % 3

herbs: ARLA8, MOMA3, CLUN2, MAST4, TITRU herb % 15

quadratic mean diameter snags: 13 snag height: 54 snags per acre: 200

cwd % cover: 15 pieces of cwd per acre: 300

Streams: none observed Wetlands: none observed

substrate: duff & litter CC_1: 6 AgeClass 100-150

special habitat features and wildlife observations:

none observed

Notes: Photos 111-112. Some parts very depauperate. Merged with 143.

Acres: 0.24 **Observer:** PM **Date:** 6/29/2010

 PA1:
 TSHE/CLUN2
 PA1%:
 100

 PA2:
 PA2%:
 0

 PA3:
 PA3%:
 0

number of canopy layers: 3basal area: 150canopy closure: 91stand density index: 246.97trees per acre: 165quadratic mean diameter: 11.25

biggest trees: 12 maxdbh: 12 tallest trees: 70 average canopy height:70

trees: TSHE, BEPA, PSME, ABGR, LAOC tree % cover: 95

shrubs: VAME, CHUM, ACGL, RUPA shrub % 5

herbs: ARLA8, MOMA3, CLUN2, MAST4, ASCA2 herb % 10

quadratic mean diameter snags: 13 snag height: 35 snags per acre: 200

cwd % cover: 10 pieces of cwd per acre: 250

Streams: none observed Wetlands: none observed

substrate: duff & litter CC_1: 6 AgeClass 100-150

special habitat features and wildlife observations:

none observed

Notes: Photos 111-112. Some parts very depauperate. Merged with 143.

Acres: 1.07 **Observer:** PM **Date:** 6/29/2010

 PA1:
 TSHE/CLUN2
 PA1%:
 100

 PA2:
 PA2%:
 0

 PA3:
 PA3%:
 0

number of canopy layers: 3 basal area: 130 canopy closure: 80 stand density index: 240 trees per acre: 140 quadratic mean diameter: 12

biggest trees: 12 maxdbh: 12 tallest trees: 70 average canopy height:60

trees: TSHE, THPL tree % cover: 80

 $\mathbf{shrubs:} \ \, \mathsf{ACGL}, \mathsf{CHUM} \qquad \qquad \mathbf{shrub} \, \% \qquad \qquad 4$

herbs: MAST4, CLUN2 herb % 5

quadratic mean diameter snags: 10 snag height: 35 snags per acre: 100

cwd % cover: 10 pieces of cwd per acre: 200

Streams: none observed **Wetlands:** none observed

substrate: duff & litter CC_1: 6 AgeClass 50-80

special habitat features and wildlife observations:

none observed

Notes: Photos 124-125. Very sparse understory.

Acres: 0.02 **Observer:** PM **Date:** 6/29/2010

 PA1:
 Developed
 PA1%:
 100

 PA2:
 PA2%:
 0

 PA3:
 PA3%:
 0

number of canopy layers: 2 basal area: 5 canopy closure: 5 stand density index: 10 trees per acre: 1 quadratic mean diameter: 11.56

biggest trees: 10 maxdbh: 10 tallest trees: 80 average canopy height:70

trees:PSME, ABGRtree % cover:5shrubs:RUPA, ALVISshrub %10

herbs: CAREX herb % 50

quadratic mean diameter snags: 10.33 snag height: 0 snags per acre: 0.5

cwd % cover: 0 pieces of cwd per acre: 0

Streams: none observed **Wetlands:** none observed

substrate: sandy loam CC_1: 3 AgeClass 1-40

special habitat features and wildlife observations:

none observed

Notes: Some patches of regenerating PSME. ELRE4 invasion in parts of meadow. Old trail is probably still used, need to make an obvious decommission.

Acres: 2.51 **Observer:** HS **Date:** 8/1/2009

 PA1:
 Developed
 PA1%:
 100

 PA2:
 PA2%:
 0

 PA3:
 PA3%:
 0

number of canopy layers: 2 basal area: 5 canopy closure: 2 stand density index: 10 trees per acre: 1 quadratic mean diameter: 11.56

biggest trees: 9 maxdbh: 9 tallest trees: 53 average canopy height:40

trees: ABLA tree % cover: 2

shrubs: PHDI3 shrub % 3

herbs: CAGE2, CARU, FEVI, ELRE4, FEID, ERUMM herb % 50

quadratic mean diameter snags: 10.33 snag height: 0 snags per acre: 0.5

cwd % cover: 0 pieces of cwd per acre: 0

Streams: none observed Wetlands: none observed

substrate: sandy loam CC_1: 3 AgeClass 1-40

special habitat features and wildlife observations:

none observed

Notes: Some patches of regenerating PSME. ELRE4 invasion in parts of meadow. Old trail is probably still used, need to make

an obvious decommission.

Acres: 6.48 **Observer:** HS **Date:** 8/1/2009

 PA1:
 FEVI-FEID
 PA1%:
 50

 PA2:
 PHDI3/FEVI-HICY
 PA2%:
 50

 PA3:
 PA3%:
 0

number of canopy layers:1basal area:2canopy closure:2stand density index:3trees per acre:5quadratic mean diameter:6

biggest trees: 16 maxdbh: 15 tallest trees: 42 average canopy height:35

trees: ABLA, PIAL, PSME tree % cover: 1

shrubs: PHDI3, PREM, VAME shrub % 4

herbs: FEID, FEVI, HICY, JUPA, ACMI, HICY herb % 60

quadratic mean diameter snags: 10.33 snag height: 0 snags per acre: 0.5

cwd % cover: 0 pieces of cwd per acre: 20

Streams: none observed **Wetlands:** none observed

substrate: sandy loam **CC_1:** 1 **AgeClass** 40

special habitat features and wildlife observations:

special PA

Notes:

Acres: 0.89 **Observer:** GW, PM **Date:** 6/29/2010

 PA1:
 FEVI-FEID
 PA1%:
 40

 PA2:
 PHDI3/FEVI-HICY
 PA2%:
 30

 PA3:
 Developed
 PA3%:
 30

number of canopy layers:1basal area:2canopy closure:1stand density index:3trees per acre:1quadratic mean diameter:6

biggest trees: 0 maxdbh: 0 tallest trees: 0 average canopy height:0

trees: ABLA, PIAL, PSME tree % cover: 1

shrubs: PHDI3 shrub % 5

herbs: FEID, FEVI, HICY, JUPA, ACMI, HICY herb % 40

quadratic mean diameter snags: 10.33 snag height: 0 snags per acre: 0.5

cwd % cover: 0 pieces of cwd per acre: 0

Streams: none observed **Wetlands:** none observed

substrate: sandy loam **CC_1:** 1 **AgeClass** 40

special habitat features and wildlife observations:

special PA

Notes:

Acres: 0.15 **Observer:** GW, PM **Date:** 6/29/2010

 PA1:
 ABLA/XETE
 PA1%:
 70

 PA2:
 ABLA/CAGE2
 PA2%:
 30

 PA3:
 PA3%:
 0

number of canopy layers: 2 basal area: 120 canopy closure: 30 stand density index: 269.94 trees per acre: 80 quadratic mean diameter: 11.7

biggest trees: 17 maxdbh: 16 tallest trees: 49 average canopy height:41

trees: ABLA tree % cover: 35

shrubs: SOSC2, VAME shrub % 4

herbs: XETE, CAGE2, CARO5 herb % 10

quadratic mean diameter snags: 10.52 snag height: 20 snags per acre: 268.35

cwd % cover: 2 pieces of cwd per acre: 198

Streams: none observed **Wetlands:** none observed

substrate: duff & litter CC_1: 4 AgeClass 10-150

special habitat features and wildlife observations:

none observed

Notes:

Acres: 0.02 **Observer:** GW **Date:** 6/29/2010

 PA1:
 ABLA/XETE
 PA1%:
 90

 PA2:
 ABLA/CAGE2
 PA2%:
 10

 PA3:
 PA3%:
 0

number of canopy layers: 2 basal area: 140.63 canopy closure: 60 stand density index: 269.94 trees per acre: 200 quadratic mean diameter: 11.7

biggest trees: 17 maxdbh: 16 tallest trees: 52 average canopy height:43

trees: ABLA tree % cover: 60

shrubs: SOSC2, VAME shrub % 5

herbs: XETE, CAGE2, CARO5 herb % 8

quadratic mean diameter snags: 11 snag height: 20 snags per acre: 10

cwd % cover: 8 pieces of cwd per acre: 189

Streams: none observed **Wetlands:** none observed

substrate: duff & litter CC_1: 4 AgeClass 10-150

special habitat features and wildlife observations:

none observed

Notes:

Acres: 0.27 **Observer:** GW **Date:** 6/29/2010

 PA1:
 ABLA/XETE
 PA1%:
 40

 PA2:
 ABLA/MEFE
 PA2%:
 30

 PA3:
 TSHE/XETE
 PA3%:
 30

number of canopy layers: 3 basal area: 168.16 canopy closure: 80 stand density index: 318.56 trees per acre: 265 quadratic mean diameter: 10.97

biggest trees: 19 maxdbh: 18 tallest trees: 80 average canopy height:70

trees: ABLA, LAOC, PICO, TSHE, PIMO3 tree % cover: 85

shrubs: VAME, CHUM, LIBO3 shrub % 17

herbs: ANPI, PYAS, VIGL, XETE, PYSE herb % 14

quadratic mean diameter snags: 9.5 snag height: 28 snags per acre: 229.54

cwd % cover: 12 pieces of cwd per acre: 275

Streams: none observed Wetlands: none observed

substrate: duff & litter CC_1: 5 AgeClass 10-150

special habitat features and wildlife observations:

none observed

Notes: ABLA/MEFE in patches where steep, rocky.

Acres: 2.01 **Observer:** GW **Date:** 7/16/2010

 PA1:
 TSHE/CLUN2
 PA1%:
 40

 PA2:
 ABLA/XETE
 PA2%:
 30

 PA3:
 ABLA/MEFE
 PA3%:
 30

number of canopy layers: 3 basal area: 168.16 canopy closure: 80 stand density index: 318.56 trees per acre: 370 quadratic mean diameter: 10.97

biggest trees: 20 maxdbh: 19 tallest trees: 90 average canopy height:85

trees: ABLA, LAOC, PICO, TSHE, PIMO3 tree % cover: 85

shrubs: VAME, LIBO3 shrub % 4

herbs: ANPI, PYAS, VIGL, XETE, PYSE herb % 35

quadratic mean diameter snags: 9.5 snag height: 28 snags per acre: 229.54

cwd % cover: 12 pieces of cwd per acre: 275

Streams: none observed **Wetlands:** none observed

substrate: duff & litter CC_1: 5 AgeClass 10-150

special habitat features and wildlife observations:

none observed

Notes: ABLA/MEFE in patches where steep, rocky.

Acres: 0.03 **Observer:** GW **Date:** 7/16/2010

 PA1:
 ERUMM-FEVI
 PA1%:
 40

 PA2:
 Mixed Deciduous Shrubs
 PA2%:
 20

 PA3:
 CAGE2-CARU
 PA3%:
 40

number of canopy layers: 2 basal area: 5 canopy closure: 2 stand density index: 10 trees per acre: 1 quadratic mean diameter: 6

biggest trees: 16 maxdbh: 15 tallest trees: 42 average canopy height:34

trees: ABLA, PSME, PIAL tree % cover: 3

shrubs: PREM, VAME, PHDI3 shrub % 5

herbs: CARU, ERUMM, FEVI, FEID, HISC2, PECO6, CAGE2 herb % 70

quadratic mean diameter snags: 11.86 snag height: 0 snags per acre: 0.5

cwd % cover: 0 pieces of cwd per acre: 0

Streams:none observedWetlands:none observedsubstrate:sandy loam, rockCC_1:1 AgeClassnon-forest

special habitat features and wildlife observations:

ground squirrel use; special PA

Notes: Evenly scattered surface boulders. Lots of ground squirrels.

Acres: 14.63 **Observer:** HS **Date:** 7/16/2010

 PA1:
 ERUMM-FEVI
 PA1%: 40

 PA2:
 CAGE2-CARU
 PA2%: 40

 PA3:
 Developed
 PA3%: 20

number of canopy layers: 2basal area:10canopy closure: 2stand density index:20trees per acre: 5quadratic mean diameter:8

biggest trees: 0 maxdbh: 0 tallest trees: 50 average canopy height:40

trees: ABLA, PSME, PIAL tree % cover: 2

shrubs: PREM, VAME shrub % 5

herbs: CARU, ERUMM, FEVI, FEID, HISC2, PECO6, CAGE2 herb % 50

quadratic mean diameter snags: 10 snag height: 0 snags per acre: 0.5

cwd % cover: 0 pieces of cwd per acre: 0

Streams:none observedWetlands:none observedsubstrate:sandy loam, rockCC_1:1 AgeClassnon-forest

special habitat features and wildlife observations:

ground squirrel use; special PA

Notes: Evenly scattered surface boulders. Lots of ground squirrels.

Acres: 0.97 **Observer:** HS **Date:** 7/16/2010

 PA1:
 TSHE/ATFI
 PA1%:
 90

 PA2:
 ABGR/VAME
 PA2%:
 10

 PA3:
 PA3%:
 0

number of canopy layers: 2 basal area: 173.26 canopy closure: 80 stand density index: 319.47 trees per acre: 300 quadratic mean diameter: 11.76

biggest trees: 22 maxdbh: 21 tallest trees: 90 average canopy height:85

trees: ABGR, PSME, LAOC, PICO, ABLA tree % cover: 95

shrubs: VAME shrub % 3

herbs: ARLA8, VIGL herb % 30

quadratic mean diameter snags: 10.7 snag height: 39 snags per acre: 347.97

cwd % cover: 8 pieces of cwd per acre: 240

Streams: none observed **Wetlands:** none observed

substrate: duff & litter CC_1: 5 AgeClass 50-200

special habitat features and wildlife observations:

old growth forest

Notes: no CLUN2; not much VAME; some old ABLA here.

Acres: 0 **Observer:** GW **Date:** 6/29/2010

 PA1:
 TSHE/CLUN2
 PA1%:
 50

 PA2:
 ABGR/VAME
 PA2%:
 50

 PA3:
 PA3%:
 0

number of canopy layers: 3 basal area: 173.26 canopy closure: 85 stand density index: 319.47 trees per acre: 240 quadratic mean diameter: 11.76

biggest trees: 18 maxdbh: 18 tallest trees: 95 average canopy height:90

trees: ABGR. PICO, LAOC, PSME tree % cover: 90

shrubs: VAME shrub % 10

herbs: ARLA8, VIGL herb % 30

quadratic mean diameter snags: 10.7 snag height: 39 snags per acre: 347.97

cwd % cover: 6 pieces of cwd per acre: 240

Streams: none observed **Wetlands:** none observed

substrate: duff & litter CC_1: 5 AgeClass 50-150

special habitat features and wildlife observations:

none observed

Notes: no CLUN2; not much VAME; some old ABLA here.

Acres: 0 **Observer:** GW **Date:** 6/29/2010

 PA1:
 ABGR/VAME
 PA1%:
 100

 PA2:
 PA2%:
 0

 PA3:
 PA3%:
 0

number of canopy layers: 3 basal area: 173.26 canopy closure: 85 stand density index: 319.47 trees per acre: 240 quadratic mean diameter: 11.76

biggest trees: 17 maxdbh: 17 tallest trees: 94 average canopy height:86

trees: ABGR, PSME, LAOC, PICO, ABLA tree % cover: 90

shrubs: VAME shrub % 12

herbs: ARLA8, VIGL herb % 17

quadratic mean diameter snags: 11 snag height: 44 snags per acre: 347.97

cwd % cover: 6 pieces of cwd per acre: 150

Streams: none observed **Wetlands:** none observed

substrate: duff & litter CC_1: 5 AgeClass 50-150

special habitat features and wildlife observations:

none observed

Notes: no CLUN2; not much VAME; some old ABLA here.

Acres: 0.84 **Observer:** GW **Date:** 6/29/2010